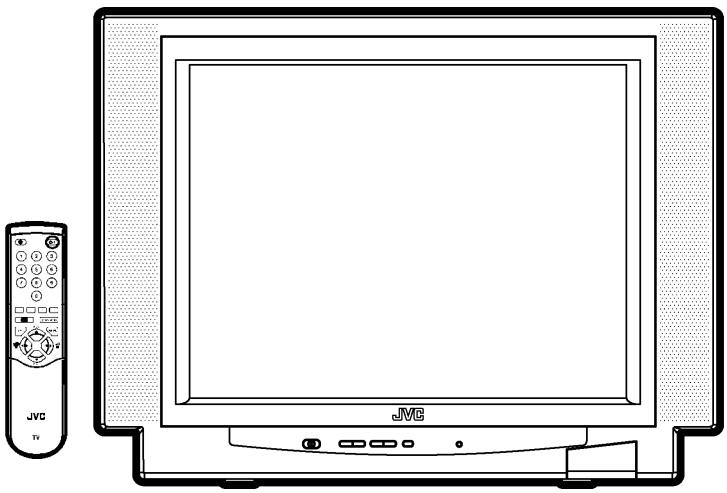
AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

JVC

SERVICE MANUAL

COLOUR TELEVISION

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB



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AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

SPECIFICATIONS

Item		Content		
		AV28BH7ENS AV28BH7ENB	**AV28BH7EPS AV28BH7EPB**	**AV28BH7EES AV28BH7EEB**
Dimensions (W x H x D)		77cm × 58cm × 48cm		
Mass		33.2 kg		
TV RF System		B/G	B/G, L/L'	B/G, D/K, K1
Colour System	**TV Mode**	PAL	PAL / SECAM	PAL / SECAM
	Video Mode	PAL / NTSC 3.58 / NTSC 4.43	PAL / SECAM / NTSC 3.58 / NTSC 4.43	PAL / SECAM / NTSC 3.58 / NTSC 4.43
Teletext System		FLOF(Fastext) / TOP		
Stereo System		A2 / NICAM		
Tuning System		Frequency Synthesizer Tuning System		
Number of CH Memory Position		200 ch		
Receiving Frequency	**VHF (VL)**	46.25MHz ~ 168.25MHz		
	VHF (VH)	175.25MHz ~ 463.25MHz		
	UHF	471.25MHz ~ 863.25MHz		
	CATV	S1-S20 & S21-S41 & S75-S79	**B/G :** S01-S41 / S75-S79 **L :** S01-S41 / S75-S77	**B/G :** S01-S41 / S75-S79 **D/K :** S01-S41
Intermediate Frequency	**VIF Carrier**	38.9MHz		
	SIF Carrier	32.4MHz (6.5MHz)		
		32.9MHz (6.0MHz)		
		33.4MHz (5.5MHz)		
Colour Sub Carrier Frequency		PAL (4.43MHz), SECAM (4.43MHz), NTSC (3.58MHz/4.43MHz)		
Aerial Input Terminal		75 Ohm Unbalanced		
Power Input		AC 220V ~ 240V, 50Hz		
Power Consumption		175W (Max.) / 130W (Avg.)		
Picture Tube		28 inch measured diagonally		
High Voltage		29.5kV (in cut-off service mode)		
Speaker		57 ×160 mm ellipse type ×2 + Tweeter ×2		
Audio Output		12W + 12W		
Input	**Video**	1V(p-p), 75 Ohm		
	Audio (L/R)	500mV(rms), High Impedance		
Output	**Video**	1V(p-p), 75 Ohm		
	Audio (L/R)	500mV(rms), Low Impedance		
Input Terminal	**Rear Side**	EXT 1 (Video/Audio/RGB)		
		EXT 2 (Video/Audio/S-VHS)		
	Front Side	F AV (Video/Audio)		
Output Terminal	**Front Side**	Headphone jack (Stereo mini jack, 3.5mm∅)		
	Rear Side	EXT 1 (Video/Audio)		
		EXT 2 (Video/Audio) (Selected TV, AV1 or AV3)		
Remote Control Unit		VE-30015781 (RM-C85), Battery size:AAA/R03 x 2		

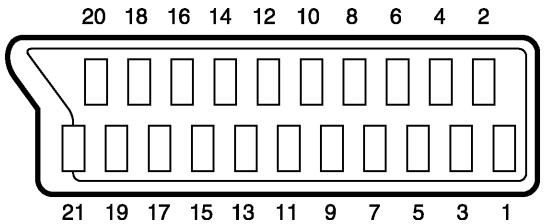
Design & specifications are subject to change without notice.

■21-pin Euro connector (SCART socket) : EXT 1 / EXT 2

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	EXT 1	EXT 2
1	AUDIO R output	500mVrms(Nominal),Low impedance	○ (TV OUT)	○ (TV/LINE OUT)
2	AUDIO R input	500mVrms(Nominal),High impedance	○	○
3	AUDIO L output	500mVrms(Nominal),Low impedance	○ (TV OUT)	○ (TV/LINE OUT)
4	AUDIO GND		○	○
5	GND (B)		○	○
6	AUDIO L input	500mVrms(Nominal), High impedance	○	○
7	B input	$700mV_{B-W}$, 75Ω	○	NC
8	FUNCTON SW (SLOW SW)	Low : 0-3V, High : 8-12V, High impedance	○	NC
9	GND (G)		○	○
10	-		NC	-
11	G input	$700mV_{B-W}$, 75Ω	○	NC
12	-		NC	-
13	GND (R)		○	○
14	GND (YS)		○	NC
15	R / C input	R : $700mV_{B-W}$, 75Ω C : $300mV_{P-P}$, 75Ω	○ (R/C)	○ (only C)
16	Ys input	Low : 0 – 0.4, High : 1 - 3V, 75 Ω	○	NC
17	GND(VIDEO output)		○	○
18	GND(VIDEO input)		○	○
19	VIDEO output	$1V_{S-W}$ (Negative going sync), 75Ω	○ (TV)	○ (TV/LINE OUT)
20	VIDEO / Y input	$1V_{S-W}$ (Negative going sync), 75Ω	○	○
21	COMMON GND		○	○

[Pin assignment]



SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE side GND, the ISOLATED(NEUTRAL) side GND and EARTH side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.

5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

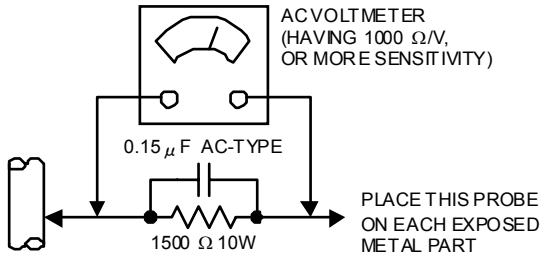
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. **Isolation Check**
   (Safety for Electrical Shock Hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

● **Alternate Check Method**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



FEATURES

1. It is a remote controlled color television.
2. 200 programs from VHF, UHF bands or cable channels can be preset.
3. It can tune cable channels.
4. Controlling the TV is very easy by its menu driven system.
5. It has two Euro connector sockets for external device (such as video recorder, video games, audio set, etc.)
6. Front AV Input available.
7. Stereo sound systems (A2 + NICAM) are available.
8. Full function Teletext (Fastext, TOP).
9. It is possible to connect headphone.
10. Direct channel access.
11. APS (Automatic Programming System).
12. All programs can be named.
13. Forward or backward automatic tuning.
14. Automatic sound mute when no transmission.
15. 5 minutes after the broadcasting (closedown), the TV switches itself automatically to stand-by mode.

MAIN DIFFERENCE LIST

MODEL No. / Parts Name	AV28BH7ENS (Silver)	AV28BH7ENB (Black)	AV28BH7EPS (Silver)	AV28BH7EPB (Black)	AV28BH7EES (Silver)	AV28BH7EEB (Black)
MAIN PWB	VE-20084580	←	VE-20084599	←	VE-20084594	←
INST BOOK	VE-50023325	←	VE-50023329	←	VE-50023332	←
FRONT CABINET	VE-20086394	VE-20086395	VE-20086394	VE-20086395	VE-20086394	VE-20086395
FRONT AV DOOR	VE-20069219	VE-20086314	VE-20069219	VE-20086314	VE-20069219	VE-20086314
BACK COVER	VE-20084616	VE-20069018	VE-20084616	VE-20069018	VE-20084616	VE-20069018
BACK DOOR	VE-20087523	VE-20040684	VE-20087523	VE-20040684	VE-20087523	VE-20040684
BUTTON ON/OFF	VE-20083491	VE-20069016	VE-20083491	VE-20069016	VE-20083491	VE-20069016
BUTTON ASS'Y	VE-20083490	VE-20081484	VE-20083490	VE-20081484	VE-20083490	VE-20081484
BASE	VE-20078582	VE-20081578	VE-20078582	VE-20081578	VE-20078582	VE-20081578
SHASSIS FRAME	VE-20004005	VE-20040575	VE-20004005	VE-20040575	VE-20004005	VE-20040575
LOGO JVC	VE-40009154	VE-40009152	VE-40009154	VE-40009152	VE-40009154	VE-40009152

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Remove the **8** screws marked **A**.
2. Remove the **4** screws marked **B**.
3. Withdraw the rear cover toward you.

REMOVING THE MAIN PWB

- After removing the rear cover.

1. Draw out back and remove the MAIN PWB ASS'Y,

NOTES

Be careful enough when developing a main chassis.
The wire of a POWER TRANSFER does not separate and short-circuit with other parts.

REMOVING THE FRONT AV + HEADPHONE JACK PWB

- After removing the rear cover.

1. Remove the **2** screws marked **C**, and remove the FRONT AV + HEADPHONE JACK PWB.

REMOVING THE FRONT CONTROL PWB

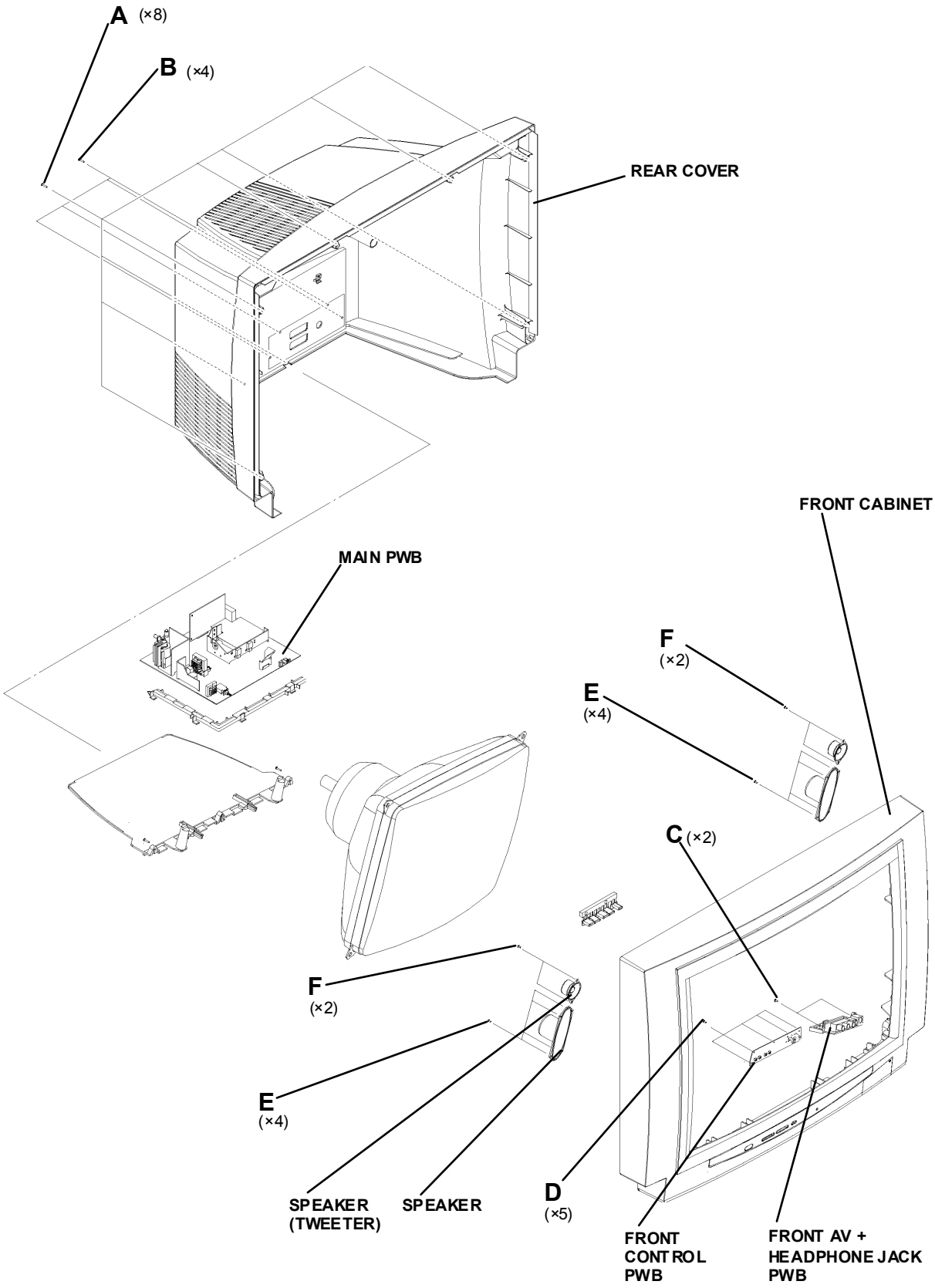
- After removing the rear cover.

1. Remove the MAIN PWB ASS'Y.
2. Remove the **5** screws marked **D**, and remove the FRONT CONTROL PWB.

REMOVING THE SPEAKER

- After removing the rear cover.

1. Remove the **4** screws marked **E**, and remove the SPEAKER.
2. Remove the **2** screws marked **F**, and remove the TWEETER SPEAKER.
3. Remove an opposite side similarly.


A (×8)
B (×4)
REAR COVER
FRONT CABINET
MAIN PWB
F (×2)
E (×4)
C (×2)
F (×2)
E (×4)
SPEAKER (TWEETER)
SPEAKER
D (×5)
FRONT CONTROL PWB
FRONT AV + HEADPHONE JACK PWB

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

SETTING OF THE LAST MEMORY FOR SHIPMENT

■ USER SETTING VALUES

Setting Item	Setting Value	Setting Item	Setting Value
SOUND MENU		FEATURE MENU	
BASS	CENTER	SLEEP TIMER	OFF
TREBLE	↑	CHILD LOCK	OFF
BALANCE	↑	EXT-2 OUTPUT	TV
EFFECT	OFF		
PICTURE MENU		INSTALL→ TV CONFIG. MENU	
BRIGHTNESS	These adjust are automatically restored when APS bit in Service menu is set. The procedure for setting APS bit is described bellow.	LANGUAGE	ENGLISH
COLOUR		COUNTRY	Other
CONTRAST			
SHARPNESS			
HUE (only NTSC)			
PICTURE MODE	AUTO		

■ SETTING APS “ON” IN SERVICE MENU

1) Enter service menu in TV mode by pressing “INFO” and “MUTE” keys simultaneously. Service Menu will appear.
2) Select VIDEO by pressing “GREEN” key on remote controller.
3) Choose APS item by pressing Up/Down keys on remote controller.
4) Change the value to “ON” by pressing Left/Right keys on remote controller.
5) Store the change by pressing “INFO" button.
6) Exit service mode by pressing “STANDARD” key on remote control.

SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

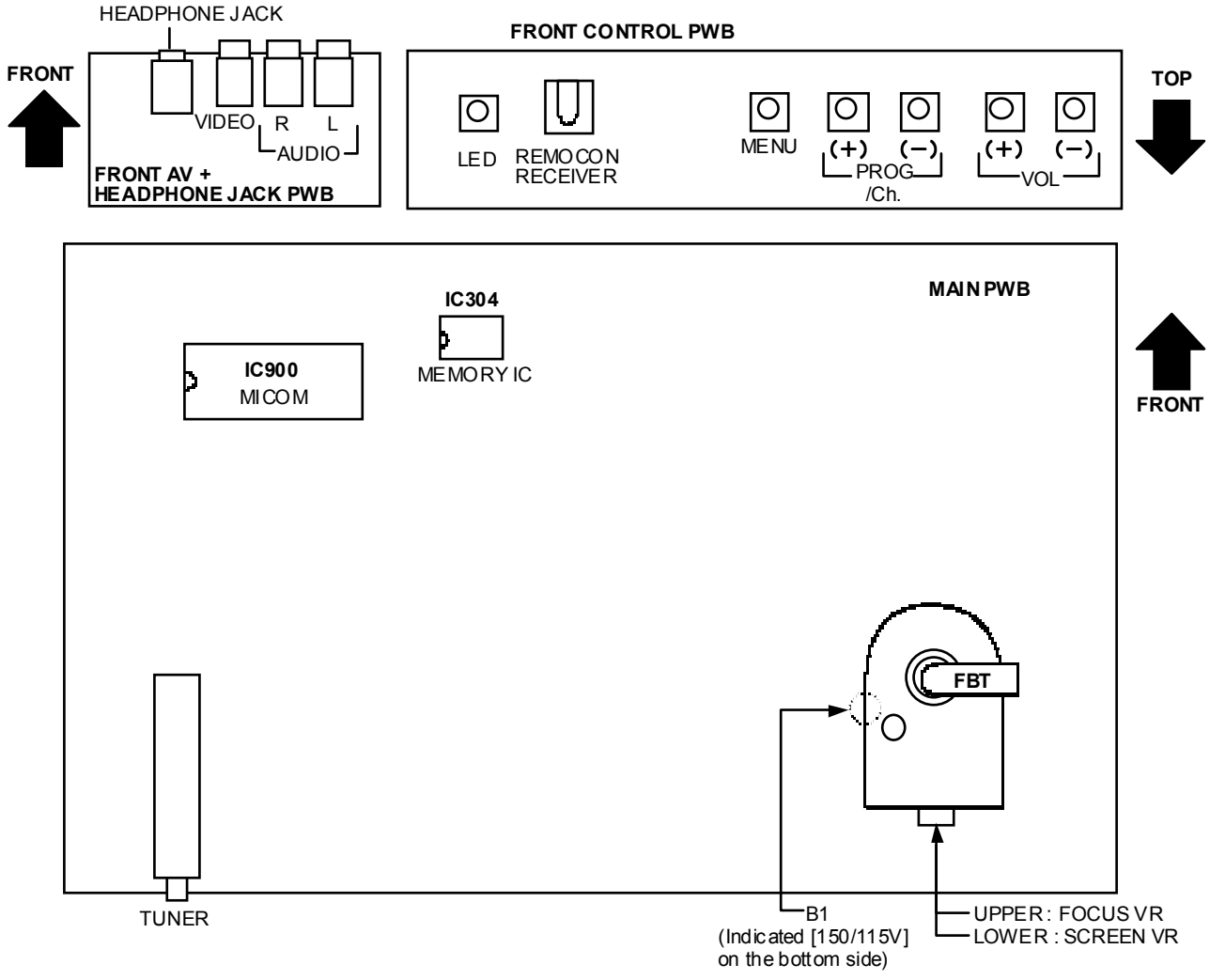
1. **You can make the necessary adjustments for this unit with either the Remote Control Unit or With the adjustment tools and parts as given below.**
2. **Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.**
3. Make sure that AC power is turned on correctly.
4. Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. Never touch any adjustment parts which are not specified in the list for this adjustment - variable resistors, transformers, condensers, etc.
7. Presetting before adjustment.
   Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

VIDEO STATUS	STANDARD
TINT / COLOUR	
PICTURE / BRIGHT	CENTER
DETAIL	

ADJUSTMENT EQUIPMENT

1. DC voltmeter (or digital voltmeter)
2. Signal generator (Pattern generator) [PAL/SECAM/NTSC]
3. Remote control unit

MAIN PARTS LOCATIONS



BASIC OPERATION SERVICE MENU

■ HOW TO ENTER THE SERVICE MODE

1) Press the **INFORMATION** key and **MUTING** key of REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig.1 will be displayed.

SERVICE MENU (1/2)

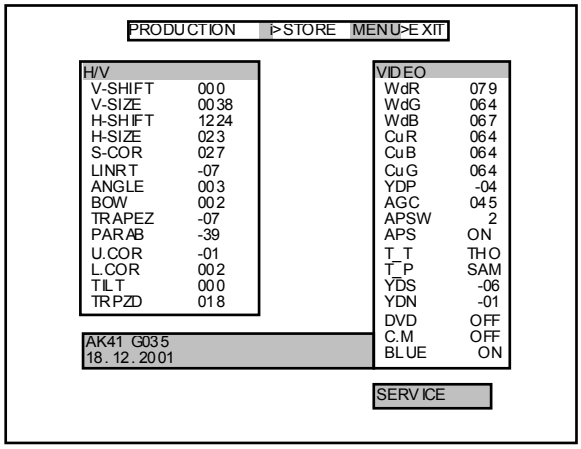


Fig.1

2) While the Fig.1 is displayed, press the **BLUE** key for access to the SERVICE MENU (2/2) (Fig.2).

SERVICE MENU (2/2)

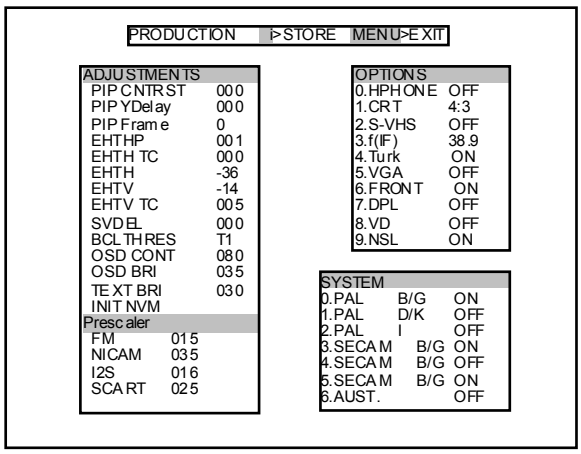
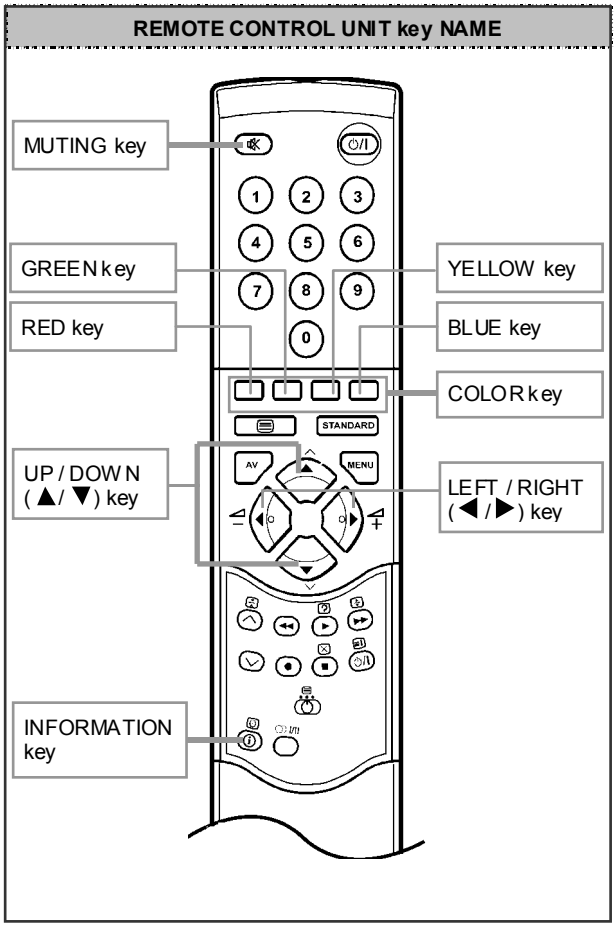


Fig.2

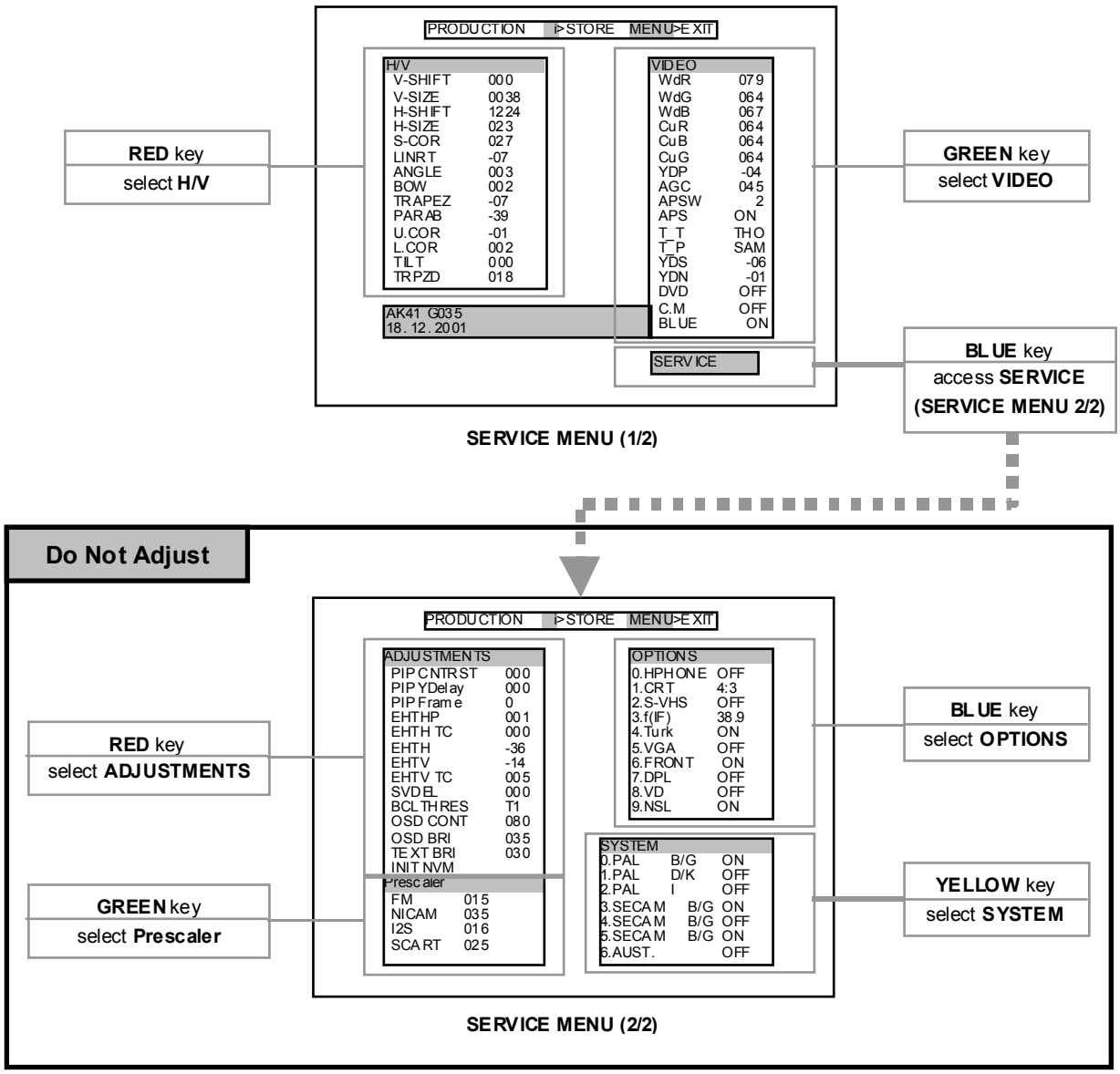


■ HOW TO EXIT SERVICE MODE

1) Press the **MENU** Key on REMOTE CONTROL UNIT.

■ SELECTION OF ADJUSTMENT ITEMS

1) Press the **COLOR** key and select the service menu section.
2) Select the ADJUST Item, use **UP** (▲) / **DOWN**(▼) key of remote control unit.
3) To change the selected parameter, use **LEFT** (◀) and **RIGHT** (▶) key.
4) Press the **INFORMATION** key to STORE.



■ HOW TO EXIT SERVICE MODE

1) Press the **MENU** Key on REMOTE CONTROL UNIT.

■ ADJUSTMENT SERVICE MENU & INITIAL SETTING VALUE

	ADJUSTMENT ITEM	DESCRIPTION	INITIAL VALUE
H/V	V-SHIFT	VERTICAL SHIFT CORRECTION	000
	V-SIZE	VERTICAL SIZE CORRECTION	0038
	H-SHIFT	HORIZONTAL SHIFT CORRECTION	1224
	H-SIZE	HORIZONTAL SHIFT CORRECTION	023
	S-COR	S-CORRECTION	027
	LINRT	LINEARITY CORRECTION	-07
	ANGLE	ANGLE CORRECTION	003
	BOW	BOW CORRECTION	002
	TRAPEZ	TRAPEZIUM CORRECTION	-07
	PARAB	PARABOLA CORRECTION	-39
	U.COR	UPPER PART CORRECTION	-01
	L.COR	LOWER CORRECTION	002
	TILT	TILT CORRECTION	000
	TRPZD	TRAPEZOID CORRECTION	018
VIDEO	WdR	White Balance Adjustment	079
	WdG	White Balance Adjustment	064
	WdB	White Balance Adjustment	067
	CuR	Colour Cut –off Levels	064
	CuB	Colour Cut –off Levels	064
	CuG	Colour Cut –off Levels	064
	YDP	Y-delay PAL	-04
	AGC	Automatic Gain Control	045
	APSW	APS Wait Time	2
	APS	Automatic Program Sort	ON
	T_T	Set the main tuner type	THO
	T_P	Set the PIP tuner	SAM
	YDS	Y-delay SECAM	-06
	YDN	Y-delay NTSC	-01
	DVD	If the TV set has DVD player, this option is set ON.	OFF
	C.M	This option toggles the Carrier Mute function. If set ON, the sound is muted if the sound carrier is shifter over 1MHz.	OFF
	BLUE	If this option is set ON, the screen is covered with blue background when there is no video signal and between channel changes.	ON

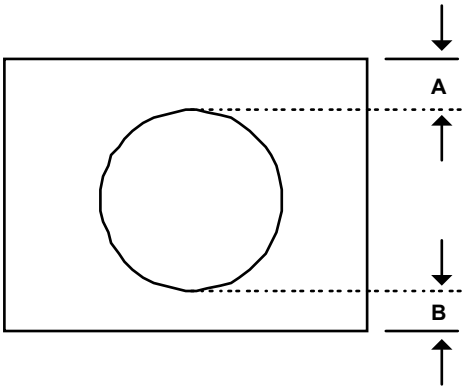
■ ADJUSTMENT SERVICE MENU & INITIAL SETTING VALUE (Do not Adjust)

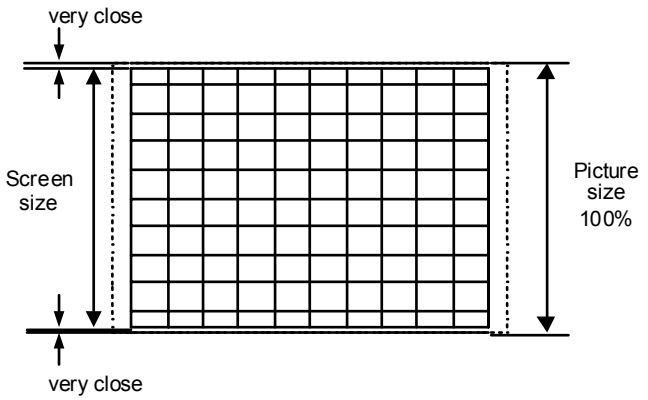
ADJUSTMENT GROUP	ADJUSTMENT ITEM	DESCRIPTION	INITIAL VALUE
ADJUSTMENTS	PIP CNTRST	Adjust the contrast of the picture inside the PIP window.	000
	PIP Y Delay	Adjust the luminance delay (with respect to colour) of the picture inside the PIP window.	000
	PIP Frame	Decides the colour and shape of the boarder around the PIP window.	0
	EHTHP	EHT compensation coefficient for horizontal phase.	001
	EHTH TC	EHT time constant for horizontal phase compensation.	000
	EHTH	EHT compensation coefficient for horizontal amplitude (±100%).	-36
	EHTV	EHT compensation coefficient for vertical amplitude (±25%).	-14
	EHTV TC	Time constant for control of vertical and horizontal amplitude EHT compensation.	005
	SVDEL	Delay of SVMOUT in steps of 12.5 ns. (7=SVMOUT vs. RGBOUT is 60ns)	000
	BCL THRES	Beam current limit threshold adjustment. (select T1 for 28 inch 4:3 tube)	T1
	OSD CONT	This item is used to set the OSD and Teletext Contrast.	080
	OSD BRI	This item is used to set the OSD Brightness.	035
	TEXT BRI	This item is used to set the Teletext Brightness.	030
	INIT NVM	Select to initialize the EEPROM to the factory defaults.	
Prescaler	FM	Defines the FM stereo prescale value for sound output power.	015
	NICAM	Defines the NICAM stereo prescale value for sound output power.	035
	I2S	Defines the I2S prescale value.	016
	SCART	Defines the SCART sound output prescale value.	025
OPTIONS	0.HPHONE	Switched headphone	OFF
	1.CRT	This item is used to select the tube. It can be set to 4:3 or 16:9.	4:3
	2.S-VHS	If the TV set has an S-VHS interface this item is set ON.	OFF
	3.f(IF)	This value should be 38.9 (contrast)	38.9
	4.Turk	Turkish menu language is visible when set ON.	ON
	5.VGA	This item should always be OFF.	OFF
	6.FRONT	If the TV set has a Front AV interface this item is set ON.	ON
	7.DPL	If the TV set has a Dolby ProLogic sound system, this item is set ON.	OFF
	8.VD	If the TV set has a Virtual Dolby sound system, this item is set ON.	OFF
	9.NSL	When set ON, sharpness range on the picture is increased.	ON
SYSTEM	0.PAL B/G	Defines whether PAL BG stand is available or not.	ON
	1.PAL D/K	Defines whether PAL DK standard is available or not.	OFF (ENS,ENB)
			OFF (EPS,EPB)
			ON (EES,EEB)
	2.PAL I	Defines whether PAL I standard is available or not.	OFF
	3.SECAM B/G	Defines whether SECAM BG standard is available or not.	ON
	4.SECAM D/K	Defines whether SECAM DK standard is available or not.	OFF
	5.SECAM L/L'	Defines whether SECAM LL' standard is available or not.	OFF (ENS,ENB)
			ON (EPS,EPB)
			OFF (EES,EEB)
	6.AUST.	When set ON, Australia channel table becomes available.	OFF

ADJUSTMENTS

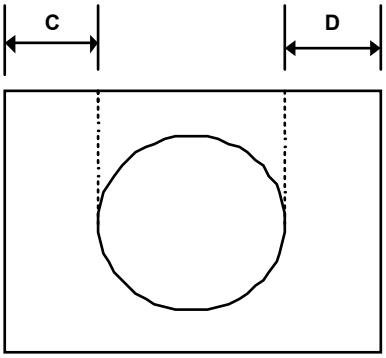
■ DEFLECTION CIRCUIT

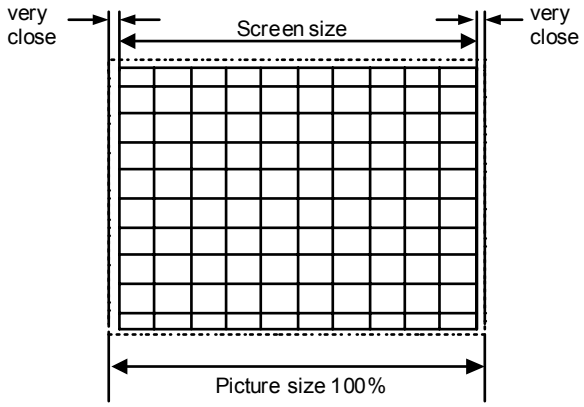
Item	Measuring instrument	Test point	Adjustment part	Description
AGC adjustment	**Signal generator** **Remote control unit**		**AGC**	1. Receive a PAL BG signal at 60dB μV RF signal level. 2. Select AGC with the UP/DOWN (▲/▼) key. 3. Adjust AGC by pressing with the LEFT/RIGHT (◀/▶) key till voltage at pin9 of PL202 is equal to 3.0V 4. Press the MENU key and memorize the set value.
V-SHIFT adjustment	**Signal generator** **Remote control unit**		**V- SHIFT**	1. Receive a circle pattern signal of vertical frequency 50Hz. 2. Select V-SHIFT with the UP/DOWN (▲/▼) key. 3. Adjust V-SHIFT with the LEFT/RIGHT (◀/▶) key to make **A = B**. 4. Check and readjust V-SHIFT item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value.
V-SIZE adjustment	**Signal generator**		**V-SIZE**	1. Receive a cross-hatch signal. 2. Select V-SIZE with the UP/DOWN (▲/▼) key. 3. Adjust V-SIZE with the LEFT/RIGHT (◀/▶) key until horizontal black lines on both the upper and lower part of the cross-hatch pattern become very close to the upper and lower horizontal sides of picture size and nearly about to disappear. 4. Check and readjust V-SIZE item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value.



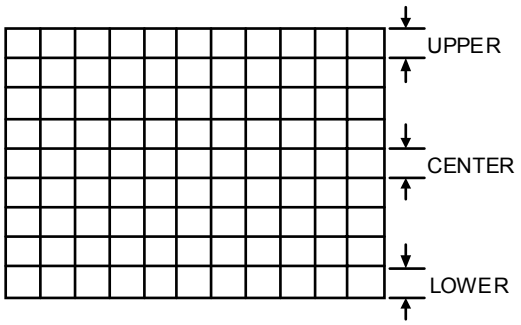


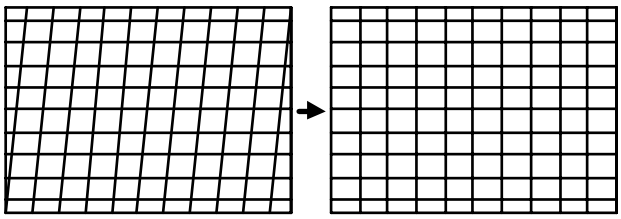
Item	Measuring instruments	Test point	Adjustment part	Description
H-SHIFT adjustment	**Signal generator** **Remote control unit**		**H-SHIFT**	1. Receive a circle pattern signal. 2. Select H-SHIFT with the UP/DOWN (▲/▼) key. 3. Adjust H-SHIFT with the LEFT/RIGHT (◀/▶) key to make **C= D**. 4. Check and readjust H-SHIFT item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value.
H-SIZE adjustment	**Signal generator** **Remote control unit**		**H-SIZE**	1. Receive a cross-hatch signal. 2. Select H-SIZE with the UP/DOWN (▲/▼) key. 3. Adjust H-SIZE with the LEFT/RIGHT (◀/▶) key till vertical lines on both the left and right part of the cross-hatch will be visible nor screen will be so wide. 4. Check and readjust H-SIZE item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value.

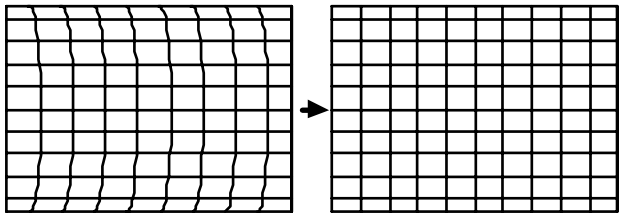
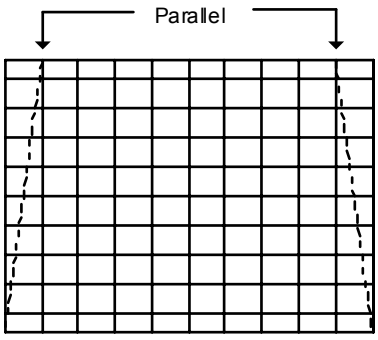


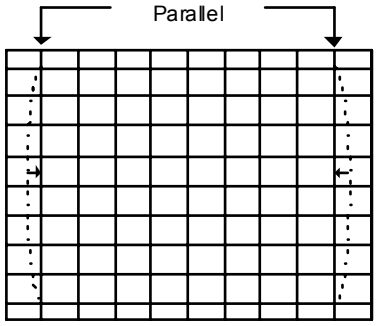
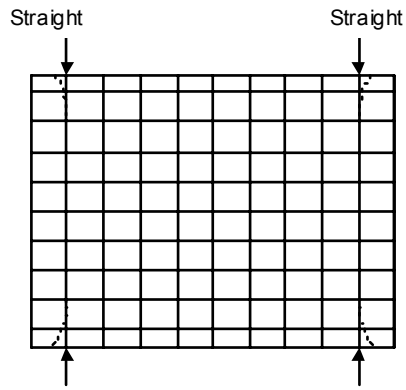


Item	Measuring instruments	Test point	Adjustment part	Description
V. S-CORRECT. & LINEARITY adjustment	**Signal generator** **Remote control unit**		**S-COR** **LINRT**	1. Receive a cross-hatch signal. 2. Select S-COR with the UP/DOWN (▲/▼) key. 3. Adjust S-COR with the LEFT/RIGHT (◀/▶) key till the size of squares on both the upper and lower part of cross-hatch pattern become equal to the square laying on the vertical center of the cross-hatch pattern. 4. Check and readjust S-COR item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value 6. Select LINRT with the UP/DOWN (▲/▼) key. 7. Adjust LINRT with the LEFT/RIGHT (◀/▶) key till all the size of squares of the cross-hatch pattern become in equal size from the top of the screen to its bottom of the whole screen. 8. Check and readjust LINRT item if the adjustment becomes improper after some other geometric adjustments (especially after than S-COR adjustment) are done. 9. Press the INFORMATION key and memorize the set value.
ANGLE adjustment	**Signal generator** **Remote control unit**		**ANGLE**	1. Receive a cross-hatch signal. 2. Select ANGLE with the UP/DOWN (▲/▼) key. 3. Adjust ANGLE with the LEFT/RIGHT (◀/▶) key till the vertical lines of the crosshatch pattern become straight. 4. Check and readjust ANGLE item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value.





Item	Measuring instruments	Test point	Adjustment part	Description
BOW adjustment	**Signal generator** **Remote control unit**		**BOW**	1. Receive a cross-hatch signal. 2. Select BOW with the UP/DOWN (▲/▼) key. 3. Adjust BOW with the LEFT/RIGHT (◀/▶) key and the vertical line straight. 4. Check and readjust BOW item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value.  NOTE In case where there is a bow-shaped distortion of images on the screen. (Figure)
TRAPEZIUM adjustment	**Signal generator** **Remote control unit**		**TRAPEZ**	1. Receive a cross-hatch signal. 2. Select TRAPEZ with the UP/DOWN (▲/▼) key. 3. Adjust TRAPEZ with the LEFT/RIGHT (◀/▶) key till vertical lines, especially lines at the sides of the picture frame became parallel to the both sides of picture tube as close as possible. 4. Check and readjust TRPEZ item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value. 

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	**Signal generator** **Remote control unit** 		**PARAB**	1. Receive a cross-hatch signal. 2. Select PARAB with the UP/DOWN (▲/▼) key. 3. Adjust PARAB with the LEFT/RIGHT (◀/▶) key till vertical lines close to the both sides of the picture frame become parallel to vertical sides of picture tube without any bending to left or to right side of the screen. 4. Check and readjust PARAB item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value.
CORNER adjustment	**Signal generator** **Remote control unit** 		**U.COR** **L.COR**	1. Receive a cross-hatch signal. 2. Select U.COR with the UP/DOWN (▲/▼) key. 3. Adjust U.COR with the LEFT/RIGHT (◀/▶) key till vertical lines at the upper corners of the picture frame become vertical and parallel to vertical corner sides of picture tube. 4. Check and readjust U.COR item if the adjustment becomes improper after some other geometric adjustments are done. 5. Press the INFORMATION key and memorize the set value. 6. Select L.COR with the UP/DOWN (▲/▼) key. 7. Adjust L.COR with the LEFT/RIGHT (◀/▶) key till vertical lines at the lower corners of the picture frame become vertical and parallel to vertical corner sides of picture tube. 8. Check and readjust L.COR item if the adjustment becomes improper after some other geometric adjustments are done.

■ VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE adjustment	**Signal generator** **Remote control unit**		**WdR** **WdG** **WdB**	1. Receive a black & white signal. 2. Select WdR, WdG and WdB with the UP/DOWN (▲/▼) key. 3. Adjust WdR, WdG and WdB with the LEFT/RIGHT (◀/▶) key. 4. Press the MENU key and memorize the set value.
COLOUR CUTOFF LEVEL adjustment	**Signal generator** **Remote control unit**		**CuR** **CuG** **CuB**	1. Receive a cross-hatch signal. 2. Select CuR, CuG and CuB with the UP/DOWN (▲/▼) key. 3. Adjust CuR, CuG and CuB with the LEFT/RIGHT (◀/▶) key and set the values of these items as **64** (constant). 4. Press the MENU key and memorize the set value.
PAL Y DELAY adjustment	**Signal generator** **Remote control unit**		**YDP**	1. Receive a PAL COLOUR BAR. 2. Select YDP with the UP/DOWN (▲/▼) key. 3. Adjust YDP by pressing with the LEFT/RIGHT (◀/▶) key till the colour transients on the colour bar pattern becomes as sharper and possible as colours between transients do not mix with each other. 4. Press the MENU key and memorize the set value.
SECAM Y DELAY adjustment	**Signal generator** **Remote control unit**		**YDS**	1. Receive a SECAM COLOUR BAR test pattern. 2. Select YDS with the UP/DOWN (▲/▼) key. 3. Adjust YDS by pressing with the LEFT/RIGHT (◀/▶) key till the colour transients on the colour bar pattern becomes as sharper and possible as colours between transients do not mix with each other. 4. Press the MENU key and memorize the set value. 5.
NTSC Y DELAY adjustment	**Signal generator** **Remote control unit**		**YDN**	1. Receive a NTSC COLOUR BAR test pattern from an external source (e.g. EXT 1). 2. Select YDN with the UP/DOWN (▲/▼) key. 3. Adjust YDN by pressing with the LEFT/RIGHT (◀/▶) key till the colour transients on the colour bar pattern becomes as sharper and possible as colours between transients do not mix with each other. 4. Press the MENU key and memorize the set value.

[MEMO]

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USING PW BOARD & REMOTE CONTROL UNIT

Model / PWB ASS'Y	AV28BH7ENS AV28BH7ENB	AV28BH7EPS AV28BH7EPB	AV28BH7EES AV28BH7EEB
MAIN PWB	VE-20084580	VE-20084599	VE-20084594
MULTISOUND PWB	VE-30017302	←	←
FEATURE BOX PWB	VE-30013755	←	←
CRT SOCKET PWB	VE-30017303	←	←
FRONT CONTROL PWB	VE-30017014	←	←
FRONT AV + HEADPHONE JACK PWB	VE-30016761	←	←
REMOTE CONTROL UNIT	VE-30015781 (RM-C85)	←	←

EXPLODED VIEW PARTS LIST

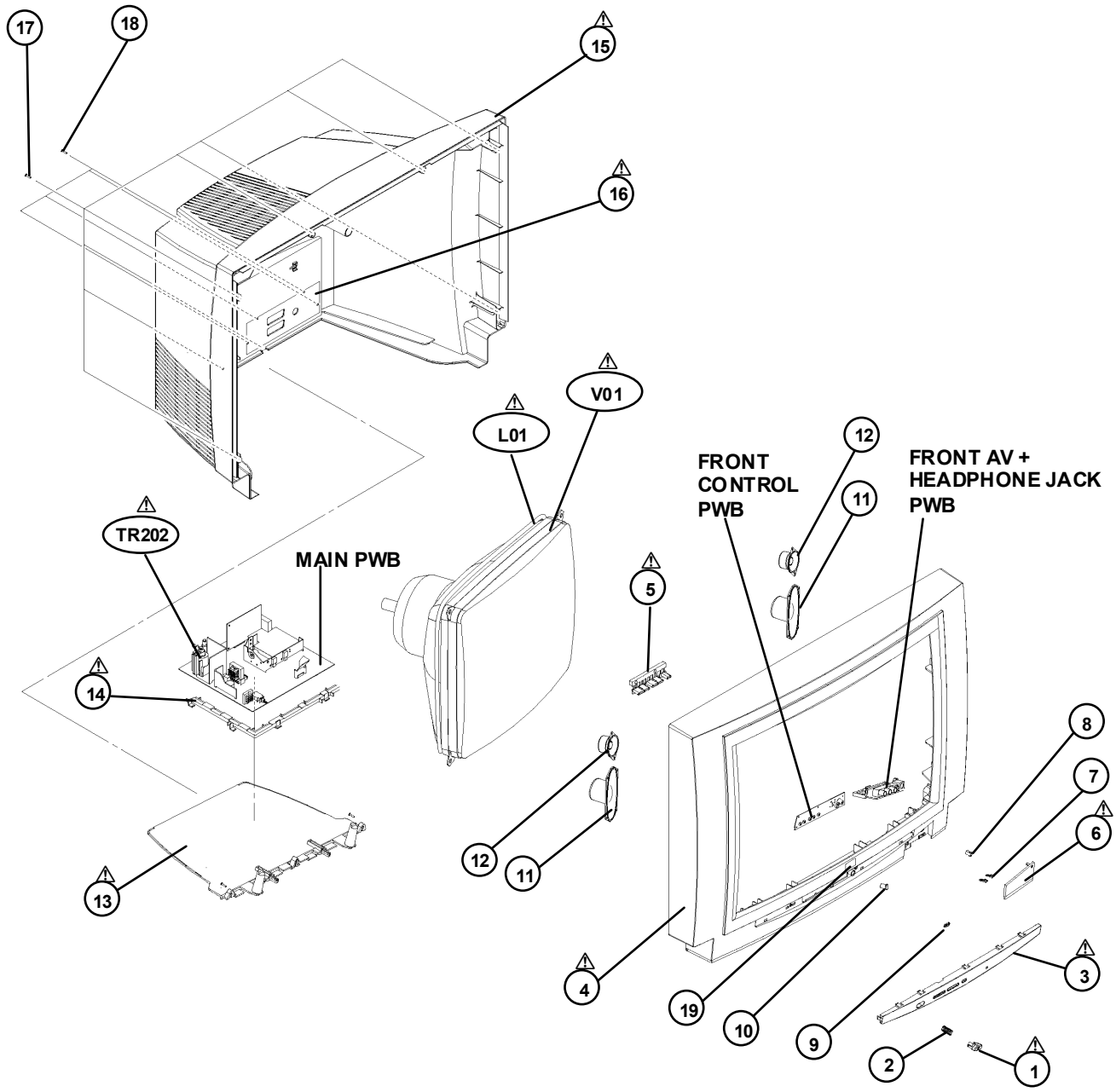
[SILVER model : AV28BH7ENS, AV28BH7EES, AV28BH7EPS]

⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	VE-30002754	PICTURE TUBE (ITC)	
⚠	L01	VE-30002728	DEG.COIL & EARTH	
⚠	TR202	VE-30016922	FBT TRF (within MAIN PWB)	
⚠	1	VE-20083491	BUTTON ON/OFF	
	2	VE-35004544	SPRING	
⚠	3	VE-20069017	FRONT PANEL (LENS)	
⚠	4	VE-20086394	FRONT CABINET	
⚠	5	VE-20083490	BUTTON ASSY	
⚠	6	VE-20069219	FRONT AV DOOR	
	7	VE-20003605	PIN (FRONT AV DOOR)	(X2)
	8	VE-40000026	EJECTOR	
	9	VE-20078776	LENS LED	
	10	VE-20004339	LENS PRE-AMP	
	11	VE-30001946	SPEAKER (57x160mm)	(X2)
	12	VE-30001947	TWEETER (CLOSED)	(X2)
⚠	13	VE-20078582	BASE	
⚠	14	VE-20004005	SHASSIS FRAME	
⚠	15	VE-20084616	BACK COVER	
⚠	16	VE-20087523	BACK DOOR	
	17	VE-35000216	SCREW	(X8)
	18	VE-35000214	SCREW	(X4)
	19	VE-40009154	LOGO JVC	

[BLACK model : AV28BH7ENB, AV28BH7EEB, AV28BH7EPB]

⚠	Ref.No.	Part No.	Part Name	Description
⚠	V01	VE-30002754	PICTURE TUBE (ITC)	
⚠	L01	VE-30002728	DEG.COIL & EARTH	
⚠	TR202	VE-30016922	FBT TRF (within MAIN PWB)	
⚠	1	VE-20069016	BUTTON ON/OFF	
	2	VE-35004544	SPRING	
⚠	3	VE-20069218	FRONT PANEL (LENS)	
⚠	4	VE-20086395	FRONT CABINET	
⚠	5	VE-20081484	BUTTON ASSY	
⚠	6	VE-20086314	FRONT AV DOOR	
	7	VE-20003605	PIN (FRONT AV DOOR)	(X2)
	8	VE-40000026	EJECTOR	
	9	VE-20078776	LENS LED	
	10	VE-20004339	LENS PRE-AMP	
	11	VE-30001946	SPEAKER (57x160mm)	(X2)
	12	VE-30001947	TWEETER (CLOSED)	(X2)
⚠	13	VE-20081578	BASE	
⚠	14	VE-20040575	SHASSIS FRAME	
⚠	15	VE-20069018	BACK COVER	
⚠	16	VE-20040684	BACK DOOR	
	17	VE-35000216	SCREW	(X8)
	18	VE-35000214	SCREW	(X4)
	19	VE-40009152	LOGO JVC	

EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST

[AV28BH7ENS / AV28BH7ENB]

MAIN P.W. BOARD ASS'Y (VE-20084580)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R101	VE-30000668	SMD RES.	1/10W 33K J
	R102	VE-30007782	MF RES.	1/4W 3.9M F
	R103	VE-30000855	MF RES.	1/4W 1M F
	R104	VE-30000668	SMD RES.	1/10W 33K J
	R105	VE-30000452	CF RES.	1/4W 10R J
	R106	VE-30000664	SMD RES.	1/10W 3.3K J
	R107	VE-30007019	SMD RES.	1/10W 10K F
	R108	VE-30007784	MO RES.	5W 33K J
⚠	R109	VE-30001270	PTC	9 OHM
	R116	VE-30001171	MO RES.	2W 4.7K J
⚠	R117	VE-30001257	MG RES.	1/2W 4.7M J
⚠	R118	VE-30009036	FUSE RES.	1/2W 0.1R J
⚠	R119	VE-30009036	FUSE RES.	1/2W 0.1R J
	R120	VE-30000814	SMD RES.	1/10W 820R J
	R122	VE-30000469	SMD RES.	1/10W 1K J
	R123	VE-30000469	SMD RES.	1/10W 1K J
	R124	VE-30000480	SMD RES.	1/10W 100K J
	R125	VE-30000927	MF RES.	1/4W 220K J
	R126	VE-30000664	SMD RES.	1/10W 3.3K J
	R127	VE-30000469	SMD RES.	1/10W 1K J
	R128	VE-30000536	CF RES.	1/4W 150K J
	R129	VE-30007019	SMD RES.	1/10W 10K F
	R130	VE-30000721	SMD RES.	1/10W 4.7K J
	R134	VE-30000469	SMD RES.	1/10W 1K J
	R135	VE-30007790	SMD RES.	1/10W 4.3K F
	R136	VE-30000774	SMD RES.	1/10W 680R J
	R137	VE-30007021	SMD RES.	1/10W 1K F
	R138	VE-30007786	SMD RES.	1/10W 2.55K F
	R139	VE-30000774	SMD RES.	1/10W 680R J
	R140	VE-30000459	CF RES.	1/4W 100R J
	R141	VE-30000475	SMD RES.	1/10W 10K J
	R142	VE-30000475	SMD RES.	1/10W 10K J
	R143	VE-30007021	SMD RES.	1/10W 1K F
	R144	VE-30007788	SMD RES.	1/10W 2.7K F
	R145	VE-30000732	SMD RES.	1/10W 470K J
	R146	VE-30000469	SMD RES.	1/10W 1K J
⚠	R148	VE-30014023	FUSE RES.	1/2W 0.1R J
	R149	VE-30007204	MF RES.	1/2W 1.5M F
⚠	R150	VE-30007783	FUSE RES.	1/4W 2.2R J
⚠	R151	VE-30014023	FUSE RES.	1/2W 0.1R J
	R152	VE-30000659	SMD RES.	1/10W 330R J
	R153	VE-30012649	SMD RES.	1/16W 150R J
	R154	VE-30012984	SMD RES.	1/16W 91R J
	R155	VE-30000712	CF RES.	1/4W 470R J
	R156	VE-30001089	MO RES.	2W 1R J
	R157	VE-30000534	SMD RES.	1/10W 15K J
	R158	VE-30000475	SMD RES.	1/10W 10K J
	R159	VE-30000480	SMD RES.	1/10W 100K J
	R160	VE-30006923	SMD RES.	1/10W 4.3K J
	R202	VE-30007779	MO RES.	5W 47R J
	R203	VE-30000534	SMD RES.	1/10W 15K J
	R205	VE-30001004	MF RES.	1/2W 0.56R J
	R206	VE-30001079	MO RES.	1W 100R J
	R210	VE-30000583	CF RES.	1/4W 220R J
	R211	VE-30000721	SMD RES.	1/10W 4.7K J
	R212	VE-30000593	SMD RES.	1/10W 2.2K J
	R213	VE-30000593	SMD RES.	1/10W 2.2K J
	R214	VE-30000593	SMD RES.	1/10W 2.2K J
	R215	VE-30000721	SMD RES.	1/10W 4.7K J
	R216	VE-30000631	SMD RES.	1/10W 2.7K J
	R217	VE-30000593	SMD RES.	1/10W 2.2K J
	R220	VE-30000590	CF RES.	1/4W 2.2K J
	R225	VE-30001086	MO RES.	2W 10K J
	R226	VE-30001168	MO RES.	2W 470RJ
	R227	VE-30000469	SMD RES.	1/10W 1K J
	R228	VE-30000475	SMD RES.	1/10W 10K J
	R229	VE-30000727	SMD RES.	1/10W 47K J
	R230	VE-30000902	MF RES.	1/4W 1.8K F
⚠	R231	VE-30001229	FUSE RES.	1W 2.2R J
	R232	VE-30000477	CF RES.	1/4W 100K J
⚠	R233	VE-30001244	FUSE RES.	0.47R 1/2W J
⚠	R234	VE-30009036	FUSE RES.	1/2W 0.1R J
	R235	VE-30000668	SMD RES.	1/10W 33K J
	R236	VE-30000718	CF RES.	1/4W 4.7K J
⚠	R237	VE-30001244	FUSE RES.	0.47R 1/2W J
	R238	VE-30000729	CF RES.	1/4W 470K J
	R239	VE-30001089	MO RES.	2W 1R J
	R240	VE-30000469	SMD RES.	1/10W 1K J
	R241	VE-30000818	SMD RES.	1/10W 8.2K J
	R242	VE-30000784	CF RES.	1/4W 680K J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R245	VE-30000466	CF RES.	1/4W 1K J
	R246	VE-30000752	CF RES.	1/4W 56K J
	R250	VE-30000477	CF RES.	1/4W 100K J
	R251	VE-30000477	CF RES.	1/4W 100K J
	R252	VE-30007789	SMD RES.	1/10W 27K F
	R254	VE-30000636	SMD RES.	1/10W 27K J
	R255	VE-30001134	MO RES.	2W 2.2R J
	R256	VE-30001100	MO RES.	1W 150R J
	R257	VE-30001173	MO RES.	1W 0.47R J
	R260	VE-30000778	SMD RES.	1/10W 6.8K J
	R261	VE-30000778	SMD RES.	1/10W 6.8K J
⚠	R262	VE-30001237	FUSE RES.	1/2W 3.3R J
	R264	VE-30001077	MO RES.	2W 10R J
	R270	VE-30000541	CF RES.	1/4W 1.5M J
	R271	VE-30000744	CF RES.	1/4W 560R J
	R272	VE-30000475	SMD RES.	1/10W 10K J
	R280	VE-30000480	SMD RES.	1/10W 100K J
	R281	VE-30000480	SMD RES.	1/10W 100K J
	R318	VE-30000469	SMD RES.	1/10W 1K J
	R322	VE-30000594	CF RES.	1/4W 22K J
	R323	VE-30000459	CF RES.	1/4W 100R J
	R324	VE-30000464	SMD RES.	1/10W 100R J
	R327	VE-30000464	SMD RES.	1/10W 100R J
	R360	VE-30000659	SMD RES.	1/10W 330R J
	R361	VE-30000659	SMD RES.	1/10W 330R J
	R362	VE-30000659	SMD RES.	1/10W 330R J
	R363	VE-30000659	SMD RES.	1/10W 330R J
	R364	VE-30000659	SMD RES.	1/10W 330R J
	R365	VE-30000659	SMD RES.	1/10W 330R J
	R366	VE-30000659	SMD RES.	1/10W 330R J
	R367	VE-30000659	SMD RES.	1/10W 330R J
	R368	VE-30000659	SMD RES.	1/10W 330R J
	R369	VE-30000659	SMD RES.	1/10W 330R J
	R370	VE-30000659	SMD RES.	1/10W 330R J
	R371	VE-30000659	SMD RES.	1/10W 330R J
	R372	VE-30000659	SMD RES.	1/10W 330R J
	R373	VE-30000659	SMD RES.	1/10W 330R J
	R374	VE-30000659	SMD RES.	1/10W 330R J
	R375	VE-30000659	SMD RES.	1/10W 330R J
	R376	VE-30000659	SMD RES.	1/10W 330R J
	R378	VE-30000659	SMD RES.	1/10W 330R J
	R379	VE-30000659	SMD RES.	1/10W 330R J
	R380	VE-30000659	SMD RES.	1/10W 330R J
	R381	VE-30000659	SMD RES.	1/10W 330R J
	R382	VE-30000659	SMD RES.	1/10W 330R J
	R383	VE-30000659	SMD RES.	1/10W 330R J
	R384	VE-30000659	SMD RES.	1/10W 330R J
	R385	VE-30000659	SMD RES.	1/10W 330R J
	R397	VE-30000659	SMD RES.	1/10W 330R J
	R398	VE-30000659	SMD RES.	1/10W 330R J
	R411	VE-30000747	SMD RES.	1/10W 560R J
	R412	VE-30000721	SMD RES.	1/10W 4.7K J
	R413	VE-30000475	SMD RES.	1/10W 10K J
	R414	VE-30000469	SMD RES.	1/10W 1K J
	R415	VE-30000517	SMD RES.	1/10W 15R J
	R416	VE-30000717	SMD RES.	1/10W 470R J
	R421	VE-30000563	SMD RES.	1/10W 1.8K J
	R422	VE-30000464	SMD RES.	1/10W 100R J
	R424	VE-30007021	SMD RES.	1/10W 1K F
	R425	VE-30000797	SMD RES.	1/10W 75R J
	R428	VE-30000475	SMD RES.	1/10W 10K J
	R429	VE-30000475	SMD RES.	1/10W 10K J
	R436	VE-30000735	SMD RES.	1/10W 4.7R J
	R440	VE-30000614	SMD RES.	1/10W 2.4K J
	R441	VE-30000475	SMD RES.	1/10W 10K J
	R445	VE-30000814	SMD RES.	1/10W 820R J
	R475	VE-30000524	SMD RES.	1/10W 150R J
	R480	VE-30000718	CF RES.	1/4W 4.7K J
	R490	VE-30000466	CF RES.	1/4W 1K J
	R492	VE-30000503	SMD RES.	1/10W 12K J
	R506	VE-30012695	SMD RES.	1/16W 470R J
	R509	VE-30000797	SMD RES.	1/10W 75R J
	R510	VE-30007021	SMD RES.	1/10W 1K F
	R511	VE-30000464	SMD RES.	1/10W 100R J
	R512	VE-30000464	SMD RES.	1/10W 100R J
	R513	VE-30000457	SMD RES.	1/10W 10R J
	R518	VE-30000735	SMD RES.	1/10W 4.7R J
	R801	VE-30000718	CF RES.	1/4W 4.7K J
	R802	VE-30000718	CF RES.	1/4W 4.7K J
	R803	VE-30000628	CF RES.	1/4W 2.7K J

[AV28BH7ENS / AV28BH7ENB]

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R804	VE-30000475	SMD RES.	1/10W 10K J
	R805	VE-30000534	SMD RES.	1/10W 15K J
	R806	VE-30000531	CF RES.	1/4W 15K J
	R807	VE-30000567	SMD RES.	1/10W 18K J
	R808	VE-30000734	CF RES.	1/4W 4.7R J
	R809	VE-30000717	SMD RES.	1/10W 470R J
	R810	VE-30000564	CF RES.	1/4W 18K J
	R811	VE-30000717	SMD RES.	1/10W 470R J
	R812	VE-30000734	CF RES.	1/4W 4.7R J
	R813	VE-30000475	SMD RES.	1/10W 10K J
	R819	VE-30000734	CF RES.	1/4W 4.7R J
	R820	VE-30000734	CF RES.	1/4W 4.7R J
	R900	VE-30012641	SMD RES.	1/16W 10K J
	R901	VE-30012641	SMD RES.	1/16W 10K J
	R902	VE-30012641	SMD RES.	1/16W 10K J
	R903	VE-30000718	CF RES.	1/4W 4.7K J
	R904	VE-30000718	CF RES.	1/4W 4.7K J
	R905	VE-30000723	CF RES.	1/4W 47K J
	R906	VE-30012696	SMD RES.	1/16W 47K J
	R907	VE-30012679	SMD RES.	1/16W 3.9K J
	R908	VE-30012679	SMD RES.	1/16W 3.9K J
	R909	VE-30000531	CF RES.	1/4W 15K J
	R910	VE-30000531	CF RES.	1/4W 15K J
	R911	VE-30012641	SMD RES.	1/16W 10K J
	R912	VE-30000471	CF RES.	1/4W 10K J
	R913	VE-30012641	SMD RES.	1/16W 10K J
	R914	VE-30000471	CF RES.	1/4W 10K J
	R915	VE-30000471	CF RES.	1/4W 10K J
	R916	VE-30012695	SMD RES.	1/16W 470R J
	R917	VE-30012987	SMD RES.	1/16W 56R J
	R918	VE-30012692	SMD RES.	1/16W 4.7K J
	R919	VE-30012657	SMD RES.	1/16W 1K J
	R920	VE-30012657	SMD RES.	1/16W 1K J
	R921	VE-30012657	SMD RES.	1/16W 1K J
	R922	VE-30012657	SMD RES.	1/16W 1K J
	R923	VE-30012657	SMD RES.	1/16W 1K J
	R924	VE-30012696	SMD RES.	1/16W 47K J
	R925	VE-30012696	SMD RES.	1/16W 47K J
	R926	VE-30012696	SMD RES.	1/16W 47K J
	R927	VE-30012696	SMD RES.	1/16W 47K J
	R928	VE-30012510	SMD RES.	1/16W 100R J
	R929	VE-30012510	SMD RES.	1/16W 100R J
	R930	VE-30012641	SMD RES.	1/16W 10K J
	R931	VE-30012641	SMD RES.	1/16W 10K J
	R932	VE-30012641	SMD RES.	1/16W 10K J
	R933	VE-30000718	CF RES.	1/4W 4.7K J
	R934	VE-30012692	SMD RES.	1/16W 4.7K J
	R935	VE-30012662	SMD RES.	1/16W 2.7K J
	R936	VE-30000718	CF RES.	1/4W 4.7K J
	R937	VE-30000459	CF RES.	1/4W 100R J
	R938	VE-30012509	SMD RES.	1/16W 100K J
	R939	VE-30012692	SMD RES.	1/16W 4.7K J
	R940	VE-30000500	CF RES.	1/4W 12K J
	R941	VE-30000588	SMD RES.	1/10W 220R J
	R942	VE-30000588	SMD RES.	1/10W 220R J
	R943	VE-30000471	CF RES.	1/4W 10K J
	R944	VE-30012641	SMD RES.	1/16W 10K J
	R945	VE-30000471	CF RES.	1/4W 10K J
	R946	VE-30012657	SMD RES.	1/16W 1K J
	R950	VE-30012657	SMD RES.	1/16W 1K J
	R951	VE-30012657	SMD RES.	1/16W 1K J
	R952	VE-30012657	SMD RES.	1/16W 1K J
	R953	VE-30000466	CF RES.	1/4W 1K J
	R955	VE-30012657	SMD RES.	1/16W 1K J
	R956	VE-30012510	SMD RES.	1/16W 100R J
	R957	VE-30012655	SMD RES.	1/16W 180R J
	R958	VE-30014022	SMD RES.	1/16W 47R J
	R959	VE-30000466	CF RES.	1/4W 1K J
	R960	VE-30000471	CF RES.	1/4W 10K J
	R961	VE-30000718	CF RES.	1/4W 4.7K J
	R964	VE-30012641	SMD RES.	1/16W 10K J
	R965	VE-30012657	SMD RES.	1/16W 1K J
	R966	VE-30012641	SMD RES.	1/16W 10K J

CAPACITOR

	C100	VE-30000098	MKT CAP.	3.3NF 63V J
	C101	VE-30000371	EL CAP.	22UF 50V M
	C102	VE-30000294	SMD CAP.	100NF 50V K
	C103	VE-30000294	SMD CAP.	100NF 50V K
	C104	VE-30012323	MKT CAP.	1NF 100V J
	C105	VE-30000284	SMD CAP.	1NF 50V K R
	C106	VE-30000332	SMD CAP.	4.7NF 50V K

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C107	VE-30000263	SMD CAP.	56PF 50V J
	C108	VE-30000123	PP CAP.	33NF 630V K
	C109	VE-30000159	MKP CAP.	4.7NF 1.6KV J
	C110	VE-30009208	C CAP.	470PF 1KV K
	C111	VE-30000131	MKP CAP.	100NF 250V J
⚠	C112	VE-30000094	MKT CAP.	220NF AC275V M
	C114	VE-30000353	EL CAP.	100UF 25V M
⚠	C115	VE-30007858	MKT CAP.	470NF AC275V M
⚠	C118	VE-30007755	MKT CAP.	680NF AC275V M
	C119	VE-30007754	MKP CAP.	1UF 400V
	C120	VE-30007753	MKP CAP.	1NF 1KV
	C121	VE-30013690	EL CAP.	220UF 450V M
⚠	C122	VE-30000447	C CAP.	4.7NF 4KV M E
	C124	VE-30000315	SMD CAP.	220NF 25V Z
	C125	VE-30000315	SMD CAP.	220NF 25V Z
	C130	VE-30007708	C CAP.	1NF 1KV K
	C131	VE-30006909	EL CAP.	100UF M 250V
	C132	VE-30007750	EL CAP.	470UF 35V
	C133	VE-30000409	EL CAP.	470UF 25V M
	C134	VE-30007750	EL CAP.	470UF 35V
	C135	VE-30007748	EL CAP.	1000UF 35V M
	C136	VE-30007748	EL CAP.	1000UF 35V M
	C137	VE-30000284	SMD CAP.	1NF 50V K R
	C138	VE-30000224	SMD CAP.	220PF 50V J
	C139	VE-30000284	SMD CAP.	1NF 50V K R
	C140	VE-30000360	EL CAP.	1000UF 25V M
	C141	VE-30000352	EL CAP.	100UF 16V M
	C142	VE-30000294	SMD CAP.	100NF 50V K
	C143	VE-30000294	SMD CAP.	100NF 50V K
	C144	VE-30000352	EL CAP.	100UF 16V M
	C145	VE-30000309	SMD CAP.	2.2NF 50V K R
	C146	VE-30000359	EL CAP.	1000UF 16V M
	C147	VE-30000359	EL CAP.	1000UF 16V M
	C148	VE-30000294	SMD CAP.	100NF 50V K
	C149	VE-30000294	SMD CAP.	100NF 50V K
	C150	VE-30000352	EL CAP.	100UF 16V M
	C151	VE-30000284	SMD CAP.	1NF 50V K R
	C160	VE-30007081	EL CAP.	4.7UF 50V M
	C161	VE-30007308	C CAP.	220PF 1KV K
	C162	VE-30007308	C CAP.	220PF 1KV K
	C163	VE-30009208	C CAP.	470PF 1KV K
	C165	VE-30016654	SMD CAP.	100NF 16V K R
	C166	VE-30000400	EL CAP.	47UF 50V M
	C167	VE-30009208	C CAP.	470PF 1KV K
	C168	VE-30000294	SMD CAP.	100NF 50V K
	C170	VE-30000352	EL CAP.	100UF 16V M
	C171	VE-30000352	EL CAP.	100UF 16V M
	C172	VE-30016654	SMD CAP.	100NF 16V K R
	C173	VE-30000315	SMD CAP.	220NF 25V Z
	C201	VE-30000360	EL CAP.	1000UF 25V M
	C202	VE-30000106	MKT CAP.	47NF 100V J
	C203	VE-30000099	MKT CAP.	33NF 63V J
	C204	VE-30000345	EL CAP.	10UF 50V M
	C206	VE-30000315	SMD CAP.	220NF 25V Z
	C207	VE-30000362	EL CAP.	1UF 50V M
	C208	VE-30000415	EL CAP.	4.7UF 250V M
	C209	VE-30000224	SMD CAP.	220PF 50V J
	C210	VE-30000149	MKP CAP.	2.7NF 2KV 3.5%
	C211	VE-30000179	MKP CAP.	9.1NF 1600V 3.5%
	C212	VE-30000137	MKP CAP.	15NF 630V J
	C213	VE-30007215	MKP CAP.	1.2UF 250V J
	C214	VE-30000415	EL CAP.	4.7UF 250V M
	C215	VE-30000166	MKP CAP.	560NF 250V J
	C216	VE-30000415	EL CAP.	4.7UF 250V M
	C222	VE-30000431	C CAP.	100PF 1KV M
	C223	VE-30000351	EL CAP.	10UF 350V M
	C225	VE-30000359	EL CAP.	1000UF 16V M
	C226	VE-30000356	EL CAP.	100UF 63V M
	C228	VE-30000360	EL CAP.	1000UF 25V M
	C232	VE-30000225	C CAP.	220PF 50V J
	C240	VE-30000400	EL CAP.	47UF 50V M
	C250	VE-30000304	SMD CAP.	1.8NF 50V K R
	C251	VE-30000359	EL CAP.	1000UF 16V M
	C252	VE-30000289	SMD CAP.	10NF 50V K R
	C253	VE-30000294	SMD CAP.	100NF 50V K
	C254	VE-30000360	EL CAP.	1000UF 25V M
	C255	VE-30000294	SMD CAP.	100NF 50V K
	C256	VE-30000092	MKT CAP.	220NF 63V J
	C257	VE-30000304	SMD CAP.	1.8NF 50V K R
	C258	VE-30000322	SMD CAP.	3.3NF 50V K
	C305	VE-30000294	SMD CAP.	100NF 50V K
	C313	VE-30000189	SMD CAP.	100PF 50V J
	C321	VE-30000352	EL CAP.	100UF 16V M
	C322	VE-30000352	EL CAP.	100UF 16V M

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CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C324	VE-30000294	SMD CAP.	100NF 50V K
	C333	VE-30000294	SMD CAP.	100NF 50V K
	C402	VE-30000345	EL CAP.	10UF 50V M
	C403	VE-30000384	EL CAP.	2.2UF 50V M
	C404	VE-30000284	SMD CAP.	1NF 50V K R
	C405	VE-30000284	SMD CAP.	1NF 50V K R
	C406	VE-30000224	SMD CAP.	220PF 50V J
	C407	VE-30000312	SMD CAP.	22NF 50V K
	C408	VE-30000371	EL CAP.	22UF 50V M
	C409	VE-30000294	SMD CAP.	100NF 50V K
	C410	VE-30000294	SMD CAP.	100NF 50V K
	C411	VE-30000109	MKT CAP.	470NF 63V J
	C412	VE-30000384	EL CAP.	2.2UF 50V M
	C413	VE-30000294	SMD CAP.	100NF 50V K
	C414	VE-30000294	SMD CAP.	100NF 50V K
	C417	VE-30000294	SMD CAP.	100NF 50V K
	C418	VE-30000294	SMD CAP.	100NF 50V K
	C419	VE-30000294	SMD CAP.	100NF 50V K
	C427	VE-30000294	SMD CAP.	100NF 50V K
	C428	VE-30000294	SMD CAP.	100NF 50V K
	C440	VE-30000400	EL CAP.	47UF 50V M
	C441	VE-30000220	SMD CAP.	22PF 50V J
	C442	VE-30000294	SMD CAP.	100NF 50V K
	C443	VE-30013411	SMD CAP.	180PF 50V J
	C450	VE-30000345	EL CAP.	10UF 50V M
	C451	VE-30000294	SMD CAP.	100NF 50V K
	C453	VE-30000355	EL CAP.	100UF 50V M
	C454	VE-30000294	SMD CAP.	100NF 50V K
	C455	VE-30000345	EL CAP.	10UF 50V M
	C456	VE-30000352	EL CAP.	100UF 16V M
	C457	VE-30000294	SMD CAP.	100NF 50V K
	C468	VE-30000294	SMD CAP.	100NF 50V K
	C478	VE-30000294	SMD CAP.	100NF 50V K
	C492	VE-30000294	SMD CAP.	100NF 50V K
	C497	VE-30000294	SMD CAP.	100NF 50V K
	C498	VE-30000294	SMD CAP.	100NF 50V K
	C499	VE-30000362	EL CAP.	1UF 50V M
	C500	VE-30000352	EL CAP.	100UF 16V M
	C505	VE-30000294	SMD CAP.	100NF 50V K
	C506	VE-30000345	EL CAP.	10UF 50V M
	C509	VE-30000186	SMD CAP.	10PF 50V D
	C510	VE-30000186	SMD CAP.	10PF 50V D
	C511	VE-30000341	SMD CAP.	68NF 50V K
	C610	VE-30000074	MKT CAP.	100NF 63V J
	C801	VE-30000362	EL CAP.	1UF 50V M
	C802	VE-30000362	EL CAP.	1UF 50V M
	C803	VE-30000362	EL CAP.	1UF 50V M
	C804	VE-30000409	EL CAP.	470UF 25V M
	C805	VE-30000294	SMD CAP.	100NF 50V K
	C806	VE-30000409	EL CAP.	470UF 25V M
	C807	VE-30000294	SMD CAP.	100NF 50V K
	C808	VE-30000074	MKT CAP.	100NF 63V J
	C809	VE-30000074	MKT CAP.	100NF 63V J
	C819	VE-30000309	SMD CAP.	2.2NF 50V K R
	C820	VE-30000309	SMD CAP.	2.2NF 50V K R
	C821	VE-30000309	SMD CAP.	2.2NF 50V K R
	C822	VE-30000309	SMD CAP.	2.2NF 50V K R
	C900	VE-30000371	EL CAP.	22UF 50V M
	C901	VE-30016654	SMD CAP.	100NF 16V K R
	C902	VE-30016654	SMD CAP.	100NF 16V K R
	C903	VE-30016654	SMD CAP.	100NF 16V K R
	C904	VE-30000074	MKT CAP.	100NF 63V J
	C905	VE-30000371	EL CAP.	22UF 50V M
	C906	VE-30016654	SMD CAP.	100NF 16V K R
	C907	VE-30000074	MKT CAP.	100NF 63V J
	C908	VE-30016654	SMD CAP.	100NF 16V K R
	C909	VE-30016654	SMD CAP.	100NF 16V K R
	C910	VE-30016654	SMD CAP.	100NF 16V K R
	C911	VE-30000352	EL CAP.	100UF 16V M
	C912	VE-30012569	SMD CAP.	33PF 50V J
	C913	VE-30012569	SMD CAP.	33PF 50V J
	C914	VE-30000371	EL CAP.	22UF 50V M
	C915	VE-30016654	SMD CAP.	100NF 16V K R
	C916	VE-30016654	SMD CAP.	100NF 16V K R
	C917	VE-30016654	SMD CAP.	100NF 16V K R
	C918	VE-30016654	SMD CAP.	100NF 16V K R
	C919	VE-30000375	EL CAP.	220UF 16V M
	C920	VE-30000384	EL CAP.	2.2UF 50V M
	C921	VE-30016654	SMD CAP.	100NF 16V K R
	C926	VE-30016654	SMD CAP.	100NF 16V K R
	C927	VE-30016654	SMD CAP.	100NF 16V K R
	C930	VE-30000345	EL CAP.	10UF 50V M
	C931	VE-30000257	C CAP.	470PF 50V J SL
	C932	VE-30016654	SMD CAP.	100NF 16V K R
	C933	VE-30000294	SMD CAP.	100NF 50V K

TRANSF

⚠	Symbol No.	Part No.	Part Name	Description
⚠	TR101	VE-30016819	SMPS TRF	
	TR201	VE-30006743	HORIZONTAL DRIVER TRF	
⚠	TR202	VE-30016922	FBT TRF	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L101	VE-30006712	FERRITE BEAD	
	L102	VE-30007775	PFC COIL	1MH 1KHZ 2A
⚠	L103	VE-30006744	LINE FILTER	16MH
⚠	L104	VE-30006744	LINE FILTER	16MH
	L106	VE-30006712	FERRITE BEAD	
	L107	VE-30001960	FERIT BAR	
	L108	VE-30001960	FERIT BAR	
	L109	VE-30001960	FERIT BAR	
	L201	VE-30007771	FIXED COIL	100UH
	L202	VE-30007757	COIL INJECTION EW	6MH
	L203	VE-30007770	FILTER COIL	1MH
	L204	VE-30012271	LINEARTY COIL	4.3UH
	L205	VE-30007756	BRIDGE COIL	150UH 32KHZ
	L206	VE-30006712	FERRITE BEAD	
	L207	VE-30006712	FERRITE BEAD	
	L304	VE-30001992	FIXED COIL	10UH Q65 K-A
	L401	VE-30001986	FIXED COIL	3.3UH Q65 K
	L403	VE-30001979	FIXED COIL	1UH Q45 M-A
	L405	VE-30001987	FIXED COIL	4.7UH Q70 K-A
	L420	VE-30001996	FIXED COIL	22UH Q40 K
	L421	VE-30001992	FIXED COIL	10UH Q65 K-A
	L422	VE-30001994	FIXED COIL	22UH J AXIAL
	L423	VE-30001994	FIXED COIL	22UH J AXIAL
	L425	VE-30001971	FERRITE BEAT	
	L801	VE-30002170	COIL FTZ/RAD	
	L802	VE-30002170	COIL FTZ/RAD	
	L900	VE-30001992	FIXED COIL	10UH Q65 K-A
	L901	VE-30001992	FIXED COIL	10UH Q65 K-A
	L902	VE-30001992	FIXED COIL	10UH Q65 K-A
	L903	VE-30001992	FIXED COIL	10UH Q65 K-A
	L904	VE-30001987	FIXED COIL	4.7UH Q70 K-A
	L905	VE-30001984	FIXED COIL	2.2UH Q55 M-AX
	L906	VE-30002171	CHOKE PEAKING COIL	22UH K

DIODE

D101	VE-30001285	DIODE
D102	VE-30001291	DIODE
D103	VE-30007768	DIODE
D104	VE-30007768	DIODE
D105	VE-30007768	DIODE
D106	VE-30007758	BRIDGE DIODE
D108	VE-30001318	DIODE
D109	VE-30009699	ZENER DIODE
D110	VE-20063054	DIODE
D111	VE-30001299	DIODE
D112	VE-30001302	DIODE
D113	VE-30001302	DIODE
D114	VE-30001302	DIODE
D115	VE-30001285	DIODE
D116	VE-30007760	ZENER DIODE
D117	VE-30001285	DIODE
D118	VE-30007760	ZENER DIODE
D119	VE-30001284	DIODE
D120	VE-30001291	DIODE
D121	VE-30001318	DIODE
D122	VE-30001318	DIODE
D123	VE-30001285	DIODE
D126	VE-30001284	DIODE
D127	VE-30001284	DIODE
D128	VE-30001284	DIODE
D201	VE-30001291	DIODE
D202	VE-30001285	DIODE
D203	VE-30007760	ZENER DIODE
D205	VE-30007763	ZENER DIODE
D206	VE-30007678	DIODE GUC
D207	VE-30007768	DIODE
D208	VE-30001291	DIODE
D209	VE-30001291	DIODE
D210	VE-30001299	DIODE
D211	VE-30001299	DIODE
D212	VE-30001291	DIODE
D213	VE-30001291	DIODE
D214	VE-30007763	ZENER DIODE
D215	VE-30007762	ZENER DIODE
D216	VE-30001285	DIODE

[AV28BH7ENS / AV28BH7ENB]

⚠	Symbol No.	Part No.	Part Name	Description
	DIODE			
	D218	VE-30001291	DIODE	
	D219	VE-30001291	DIODE	
	D220	VE-30001284	DIODE	
	D221	VE-30001284	DIODE	
	D222	VE-30001284	DIODE	
	D223	VE-30001285	DIODE	
	D224	VE-30001285	DIODE	
	D225	VE-30001318	DIODE	
	D403	VE-30001285	DIODE	
	D900	VE-30012412	ZENER DIODE	
	D901	VE-30007761	ZENER DIODE	
	TRANSISTOR			
	Q101	VE-30007801	TR	
	Q103	VE-30007802	TR	
	Q104	VE-30007798	TR	
	Q105	VE-30007798	TR	
	Q106	VE-30007802	TR	
	Q107	VE-30007798	TR	
	Q108	VE-30007798	TR	
	Q109	VE-30001457	TR	
	Q110	VE-30001457	TR	
	Q112	VE-30001454	TR	
	Q113	VE-30001428	TR	
	Q201	VE-30007802	TR	
	Q202	VE-30016686	TR	
	Q203	VE-30001458	TR	
	Q204	VE-30001458	TR	
	Q205	VE-30007799	TR	
	Q206	VE-30001457	TR	
	Q207	VE-30001457	TR	
	Q208	VE-30001455	TR	
	Q403	VE-30001457	TR	
	Q408	VE-30007800	TR	
	Q415	VE-30001457	TR	
	Q801	VE-30001457	TR	
	Q802	VE-30001457	TR	
	Q900	VE-30001458	TR	
	Q901	VE-30001457	TR	
	Q902	VE-30001457	TR	
	Q903	VE-30001457	TR	
	Q904	VE-30001457	TR	
	Q905	VE-30001457	TR	
	Q906	VE-30001457	TR	
	Q907	VE-30001457	TR	
	Q908	VE-30001457	TR	
	Q909	VE-30001458	TR	
	Q910	VE-30001457	TR	
	Q911	VE-30001457	TR	
	IC			
	IC101	VE-30007442	IC	
⚠	IC102	VE-30015087	IC	
	IC103	VE-30001506	IC	
	IC104	VE-30007444	IC	
	IC105	VE-30001500	IC	
	IC106	VE-30001668	IC	
	IC201	VE-30007793	IC	
	IC202	VE-30001506	IC	
	IC302	VE-30015382	IC(MEMORY)	
	IC304	VE-30016491	IC	
	IC401	VE-30001495	IC	
	IC801	VE-30007794	IC	
	IC802	VE-30007794	IC	
	IC900	VE-30013571	IC(MYCOM)	
	OTHERS			
⚠	F101	VE-20000849	FUSE ASSY	3.15A
⚠	F102	VE-30009037	FUSE	6.3A
⚠	F103	VE-30009037	FUSE	6.3A
	RL2	VE-30002183	RELAY	
	S133	VE-30000575	SMD RES.	1/10W 2K J
	T401	VE-30001724	SER FILTER	
	TU401	VE-30009637	TUNER	
	VL401	VE-30002037	ADJ COIL VIF	38.9 Q80
	VR127	VE-30001041	ADJ RES.	0.15W 1K M
	X900	VE-30006662	XTAL	6MHZ
	Z401	VE-30001706	SAW FILTER	
	Z403	VE-30001692	SAW FILTER	

MULTISOUND P.W. BOARD ASS'Y(VE-30017302)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R501	VE-30000475	SMD RES.	1/10W 10K J
	R502	VE-30000475	SMD RES.	1/10W 10K J
	R503	VE-30000459	CF RES.	1/4W 100R J
	R504	VE-30000459	CF RES.	1/4W 100R J
	R505	VE-30000464	SMD RES.	1/10W 100R J
	R506	VE-30000721	SMD RES.	1/10W 4.7K J
	R507	VE-30000626	SMD RES.	1/10W 270R J
	R508	VE-30000464	SMD RES.	1/10W 100R J
	R509	VE-30000464	SMD RES.	1/10W 100R J
	R510	VE-30000464	SMD RES.	1/10W 100R J
	R511	VE-30000464	SMD RES.	1/10W 100R J
	R512	VE-30000469	SMD RES.	1/10W 1K J
	R513	VE-30000466	CF RES.	1/4W 1K J
	R516	VE-30000469	SMD RES.	1/10W 1K J
	R517	VE-30000469	SMD RES.	1/10W 1K J
	R518	VE-30000469	SMD RES.	1/10W 1K J
	R519	VE-30000469	SMD RES.	1/10W 1K J
	R520	VE-30000469	SMD RES.	1/10W 1K J
	R521	VE-30000469	SMD RES.	1/10W 1K J
	R522	VE-30000469	SMD RES.	1/10W 1K J
	R523	VE-30000469	SMD RES.	1/10W 1K J
	R524	VE-30000797	SMD RES.	1/10W 75R J
	R525	VE-30000797	SMD RES.	1/10W 75R J
	R529	VE-30000797	SMD RES.	1/10W 75R J
	R532	VE-30000459	CF RES.	1/4W 100R J
	R533	VE-30000459	CF RES.	1/4W 100R J
⚠	R535	VE-30001207	FUSE RES.	1/4W 10R J
	R536	VE-30000797	SMD RES.	1/10W 75R J
	R538	VE-30000457	SMD RES.	1/10W 10R J
	R539	VE-30000452	CF RES.	1/4W 10R J
	R540	VE-30000457	SMD RES.	1/10W 10R J
	R541	VE-30000717	SMD RES.	1/10W 470R J
	R542	VE-30000475	SMD RES.	1/10W 10K J
	R543	VE-30000721	SMD RES.	1/10W 4.7K J
	R544	VE-30000717	SMD RES.	1/10W 470R J
	R545	VE-30000475	SMD RES.	1/10W 10K J
	R546	VE-30000712	CF RES.	1/4W 470R J
	R547	VE-30000475	SMD RES.	1/10W 10K J
	R548	VE-30000717	SMD RES.	1/10W 470R J
	R549	VE-30000475	SMD RES.	1/10W 10K J
	R550	VE-30000721	SMD RES.	1/10W 4.7K J
	R551	VE-30000721	SMD RES.	1/10W 4.7K J
	R552	VE-30000452	CF RES.	1/4W 10R J
	R553	VE-30000721	SMD RES.	1/10W 4.7K J
	R555	VE-30000797	SMD RES.	1/10W 75R J
	R556	VE-30000792	CF RES.	1/4W 75R J
	R557	VE-30000792	CF RES.	1/4W 75R J
	R558	VE-30000792	CF RES.	1/4W 75R J
	R559	VE-30000457	SMD RES.	1/10W 10R J
	R560	VE-30000717	SMD RES.	1/10W 470R J
	R561	VE-30000475	SMD RES.	1/10W 10K J
	R562	VE-30000721	SMD RES.	1/10W 4.7K J
	R563	VE-30000792	CF RES.	1/4W 75R J
	R572	VE-30000721	SMD RES.	1/10W 4.7K J
	R573	VE-30000721	SMD RES.	1/10W 4.7K J
	R574	VE-30000721	SMD RES.	1/10W 4.7K J
	R575	VE-30000721	SMD RES.	1/10W 4.7K J
	R576	VE-30000797	SMD RES.	1/10W 75R J
	R577	VE-30000480	SMD RES.	1/10W 100K J
	R578	VE-30000480	SMD RES.	1/10W 100K J
	R579	VE-30000797	SMD RES.	1/10W 75R J
	R580	VE-30000588	SMD RES.	1/10W 220R J
	R581	VE-30000588	SMD RES.	1/10W 220R J
	R582	VE-30000583	CF RES.	1/4W 220R J
	R583	VE-30000503	SMD RES.	1/10W 12K J
	R584	VE-30000636	SMD RES.	1/10W 27K J
	R585	VE-30000503	SMD RES.	1/10W 12K J
	R586	VE-30000636	SMD RES.	1/10W 27K J
	R587	VE-30000469	SMD RES.	1/10W 1K J
	R588	VE-30000469	SMD RES.	1/10W 1K J
	R589	VE-30000457	SMD RES.	1/10W 10R J
	R590	VE-30000469	SMD RES.	1/10W 1K J
	R591	VE-30000457	SMD RES.	1/10W 10R J
	R592	VE-30000464	SMD RES.	1/10W 100R J
	R593	VE-30000469	SMD RES.	1/10W 1K J
	R594	VE-30000469	SMD RES.	1/10W 1K J
	R595	VE-30000457	SMD RES.	1/10W 10R J
	R596	VE-30000717	SMD RES.	1/10W 470R J
	R597	VE-30000475	SMD RES.	1/10W 10K J
	R598	VE-30000721	SMD RES.	1/10W 4.7K J
	R599	VE-30000797	SMD RES.	1/10W 75R J
	R600	VE-30000475	SMD RES.	1/10W 10K J
	R613	VE-30001231	FUSE RES.	27R 1/4W J
	R614	VE-30000797	SMD RES.	1/10W 75R J

[AV28BH7ENS / AV28BH7ENB]

⚠	Symbol No.	Part No.	Part Name	Description
CAPACITOR				
	C501	VE-30000407	EL CAP.	470UF 16V M
	C502	VE-30000294	SMD CAP.	100NF 50V K
	C504	VE-30000352	EL CAP.	100UF 16V M
	C505	VE-30000407	EL CAP.	470UF 16V M
	C507	VE-30000284	SMD CAP.	1NF 50V K R
	C508	VE-30000284	SMD CAP.	1NF 50V K R
	C509	VE-30000252	SMD CAP.	47PF 50V J
	C510	VE-30000252	SMD CAP.	47PF 50V J
	C511	VE-30000332	SMD CAP.	4.7NF 50V K
	C512	VE-30000332	SMD CAP.	4.7NF 50V K
	C513	VE-30000332	SMD CAP.	4.7NF 50V K
	C514	VE-30000332	SMD CAP.	4.7NF 50V K
	C516	VE-30000371	EL CAP.	22UF 50V M
	C517	VE-30000294	SMD CAP.	100NF 50V K
	C521	VE-30000371	EL CAP.	22UF 50V M
	C522	VE-30000109	MKT CAP.	470NF 63V J
	C523	VE-30000109	MKT CAP.	470NF 63V J
	C524	VE-30000109	MKT CAP.	470NF 63V J
	C525	VE-30000109	MKT CAP.	470NF 63V J
	C526	VE-30000265	SMD CAP.	560PF 50V J
	C527	VE-30000109	MKT CAP.	470NF 63V J
	C528	VE-30000109	MKT CAP.	470NF 63V J
	C529	VE-30000294	SMD CAP.	100NF 50V K
	C530	VE-30000393	EL CAP.	3.3UF 50V M
	C531	VE-30000345	EL CAP.	10UF 50V M
	C532	VE-30000345	EL CAP.	10UF 50V M
	C533	VE-30000345	EL CAP.	10UF 50V M
	C534	VE-30000284	SMD CAP.	1NF 50V K R
	C535	VE-30000284	SMD CAP.	1NF 50V K R
	C536	VE-30000216	SMD CAP.	1.8PF 50V J
	C537	VE-30000216	SMD CAP.	1.8PF 50V J
	C538	VE-30000284	SMD CAP.	1NF 50V K R
	C539	VE-30000284	SMD CAP.	1NF 50V K R
	C540	VE-30000284	SMD CAP.	1NF 50V K R
	C541	VE-30000284	SMD CAP.	1NF 50V K R
	C542	VE-30000263	SMD CAP.	56PF 50V J
	C543	VE-30000294	SMD CAP.	100NF 50V K
	C544	VE-30000294	SMD CAP.	100NF 50V K
	C545	VE-30000284	SMD CAP.	1NF 50V K R
	C546	VE-30000284	SMD CAP.	1NF 50V K R
	C547	VE-30000284	SMD CAP.	1NF 50V K R
	C548	VE-30000284	SMD CAP.	1NF 50V K R
	C549	VE-30000294	SMD CAP.	100NF 50V K
	C550	VE-30000294	SMD CAP.	100NF 50V K
	C551	VE-30000407	EL CAP.	470UF 16V M
	C552	VE-30000407	EL CAP.	470UF 16V M
	C553	VE-30000204	SMD CAP.	150PF 50V J
	C554	VE-30000204	SMD CAP.	150PF 50V J
	C556	VE-30000352	EL CAP.	100UF 16V M
	C557	VE-30000332	SMD CAP.	4.7NF 50V K
	C558	VE-30000332	SMD CAP.	4.7NF 50V K
	C560	VE-30000074	MKT CAP.	100NF 63V J
	C561	VE-30000247	SMD CAP.	39PF 50V J
	C562	VE-30000247	SMD CAP.	39PF 50V J
	C563	VE-30000294	SMD CAP.	100NF 50V K
	C564	VE-30000332	SMD CAP.	4.7NF 50V K
	C565	VE-30000332	SMD CAP.	4.7NF 50V K
	C566	VE-30000074	MKT CAP.	100NF 63V J
	C567	VE-30000074	MKT CAP.	100NF 63V J
	C569	VE-30000074	MKT CAP.	100NF 63V J
	C576	VE-30000074	MKT CAP.	100NF 63V J
	C582	VE-30000092	MKT CAP.	220NF 63V J
	C583	VE-30000204	SMD CAP.	150PF 50V J
	C584	VE-30000204	SMD CAP.	150PF 50V J
	C585	VE-30000092	MKT CAP.	220NF 63V J
	C586	VE-30000092	MKT CAP.	220NF 63V J
	C587	VE-30000092	MKT CAP.	220NF 63V J
	C590	VE-30000332	SMD CAP.	4.7NF 50V K
	C591	VE-30000332	SMD CAP.	4.7NF 50V K
	C592	VE-30000092	MKT CAP.	220NF 63V J
	C612	VE-30000204	SMD CAP.	150PF 50V J
	C614	VE-30000294	SMD CAP.	100NF 50V K
	C615	VE-30000284	SMD CAP.	1NF 50V K R
	C616	VE-30000294	SMD CAP.	100NF 50V K
	C617	VE-30000294	SMD CAP.	100NF 50V K
	C618	VE-30000294	SMD CAP.	100NF 50V K
	C619	VE-30000294	SMD CAP.	100NF 50V K
	C620	VE-30000092	MKT CAP.	220NF 63V J
	C623	VE-30000371	EL CAP.	22UF 50V M
	C624	VE-30000371	EL CAP.	22UF 50V M
	C626	VE-30000371	EL CAP.	22UF 50V M
	C627	VE-30000371	EL CAP.	22UF 50V M
	C628	VE-30000371	EL CAP.	22UF 50V M
	C629	VE-30000371	EL CAP.	22UF 50V M

⚠	Symbol No.	Part No.	Part Name	Description
CAPACITOR				
	C630	VE-30000294	SMD CAP.	100NF 50V K
	C631	VE-30000237	SMD CAP.	33PF 50V J
	C632	VE-30000237	SMD CAP.	33PF 50V J
	C633	VE-30000237	SMD CAP.	33PF 50V J
	C634	VE-30000237	SMD CAP.	33PF 50V J
	C635	VE-30000232	SMD CAP.	270PF 50V J
	C636	VE-30000256	SMD CAP.	470PF 50V J
	C637	VE-30000237	SMD CAP.	33PF 50V J
	C638	VE-30000289	SMD CAP.	10NF 50V K R
	C640	VE-30000332	SMD CAP.	4.7NF 50V K
	C641	VE-30000332	SMD CAP.	4.7NF 50V K
	C643	VE-30000294	SMD CAP.	100NF 50V K
	C644	VE-30000294	SMD CAP.	100NF 50V K
COIL				
	L501	VE-30001996	FIXED COIL	22UH Q40 K
	L502	VE-30001996	FIXED COIL	22UH Q40 K
	L503	VE-30001996	FIXED COIL	22UH Q40 K
	L504	VE-30001996	FIXED COIL	22UH Q40 K
	L505	VE-30001996	FIXED COIL	22UH Q40 K
	L506	VE-30001996	FIXED COIL	22UH Q40 K
	L507	VE-30001996	FIXED COIL	22UH Q40 K
	L508	VE-30001996	FIXED COIL	22UH Q40 K
	L509	VE-30001996	FIXED COIL	22UH Q40 K
	L510	VE-30001996	FIXED COIL	22UH Q40 K
	L513	VE-30001996	FIXED COIL	22UH Q40 K
	L514	VE-30001996	FIXED COIL	22UH Q40 K
	L515	VE-30001996	FIXED COIL	22UH Q40 K
	L516	VE-30001996	FIXED COIL	22UH Q40 K
	L517	VE-30001996	FIXED COIL	22UH Q40 K
	L520	VE-30013413	FERRITE BEAD	
	L521	VE-30013413	FERRITE BEAD	
	L522	VE-30013413	FERRITE BEAD	
	L523	VE-30013413	FERRITE BEAD	
	L524	VE-30013413	FERRITE BEAD	
	L525	VE-30013413	FERRITE BEAD	
	L526	VE-30013413	FERRITE BEAD	
	L527	VE-30013413	FERRITE BEAD	
	L533	VE-30013413	FERRITE BEAD	
	L534	VE-30013413	FERRITE BEAD	
	L535	VE-30013413	FERRITE BEAD	
	L536	VE-30010964	FERRITE BEAT	
	L537	VE-30010964	FERRITE BEAT	
DIODE				
	D501	VE-30001369	ZENER DIODE	
	D502	VE-30001284	DIODE	
	D504	VE-30001285	DIODE	
	D505	VE-30001285	DIODE	
TRANSISTOR				
	Q501	VE-30001458	TR	
	Q502	VE-30001457	TR	
	Q503	VE-30001457	TR	
	Q504	VE-30001457	TR	
	Q505	VE-30001457	TR	
	Q506	VE-30001457	TR	
	Q507	VE-30001457	TR	
	Q508	VE-30001457	TR	
	Q509	VE-30001457	TR	
	Q510	VE-30001457	TR	
	Q511	VE-30001457	TR	
	Q512	VE-30001457	TR	
	Q513	VE-30001457	TR	
	Q514	VE-30001457	TR	
	Q515	VE-30001457	TR	
IC				
	IC501	VE-30001664	IC	
	IC502	VE-30001619	IC	
	IC504	VE-30001349	ZENER DIODE	11V
OTHERS				
	X501	VE-30001756	XTAL	

[AV28BH7ENS / AV28BH7ENB]

FEATURE BOX P.W. BOARD ASS'Y (VE-30013755)

⚠ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R001	VE-30000659	SMD RES.	1/10W 330R J
R002	VE-30000464	SMD RES.	1/10W 100R J
R003	VE-30000688	SMD RES.	1/10W 390R J
R004	VE-30006462	SMD RES.	1/10W 22R J
R005	VE-30000653	SMD RES.	1/10W 33R J
R006	VE-30000588	SMD RES.	1/10W 220R J
R007	VE-30000469	SMD RES.	1/10W 1K J
R008	VE-30000659	SMD RES.	1/10W 330R J
R009	VE-30000659	SMD RES.	1/10W 330R J
R010	VE-30000659	SMD RES.	1/10W 330R J
R011	VE-30000659	SMD RES.	1/10W 330R J
R012	VE-30000659	SMD RES.	1/10W 330R J
R013	VE-30000659	SMD RES.	1/10W 330R J
R014	VE-30000659	SMD RES.	1/10W 330R J
R015	VE-30000659	SMD RES.	1/10W 330R J
R016	VE-30000659	SMD RES.	1/10W 330R J
R017	VE-30000659	SMD RES.	1/10W 330R J
R018	VE-30000659	SMD RES.	1/10W 330R J
R021	VE-30000659	SMD RES.	1/10W 330R J
R024	VE-30000797	SMD RES.	1/10W 75R J
R026	VE-30000797	SMD RES.	1/10W 75R J
R028	VE-30000797	SMD RES.	1/10W 75R J
R030	VE-30000797	SMD RES.	1/10W 75R J
R031	VE-30000833	SMD RES.	1/10W 91R J
R032	VE-30000524	SMD RES.	1/10W 150R J
R033	VE-30000475	SMD RES.	1/10W 10K J
R034	VE-30000469	SMD RES.	1/10W 1K J
R047	VE-30000797	SMD RES.	1/10W 75R J
R048	VE-30006462	SMD RES.	1/10W 22R J
R050	VE-30000597	SMD RES.	1/10W 22K J
R053	VE-30000797	SMD RES.	1/10W 75R J
R054	VE-30000797	SMD RES.	1/10W 75R J
R055	VE-30000797	SMD RES.	1/10W 75R J
R056	VE-30000797	SMD RES.	1/10W 75R J
R057	VE-30000797	SMD RES.	1/10W 75R J
R058	VE-30000797	SMD RES.	1/10W 75R J
R059	VE-30000797	SMD RES.	1/10W 75R J
R074	VE-30000721	SMD RES.	1/10W 4.7K J
R075	VE-30000721	SMD RES.	1/10W 4.7K J
R076	VE-30000721	SMD RES.	1/10W 4.7K J
R079	VE-30000464	SMD RES.	1/10W 100R J
R080	VE-30000688	SMD RES.	1/10W 390R J
R081	VE-30006462	SMD RES.	1/10W 22R J
R082	VE-30000797	SMD RES.	1/10W 75R J
R083	VE-30000588	SMD RES.	1/10W 220R J
R084	VE-30000469	SMD RES.	1/10W 1K J
R085	VE-30000464	SMD RES.	1/10W 100R J
R086	VE-30000688	SMD RES.	1/10W 390R J
R087	VE-30006462	SMD RES.	1/10W 22R J
R088	VE-30000797	SMD RES.	1/10W 75R J
R089	VE-30000588	SMD RES.	1/10W 220R J
R090	VE-30000469	SMD RES.	1/10W 1K J
R091	VE-30000464	SMD RES.	1/10W 100R J
R092	VE-30000688	SMD RES.	1/10W 390R J
R093	VE-30006462	SMD RES.	1/10W 22R J
R094	VE-30000797	SMD RES.	1/10W 75R J
R095	VE-30000588	SMD RES.	1/10W 220R J
R096	VE-30000469	SMD RES.	1/10W 1K J
R098	VE-30000597	SMD RES.	1/10W 22K J
R099	VE-30000626	SMD RES.	1/10W 270R J
R100	VE-30000475	SMD RES.	1/10W 10K J
R101	VE-30000593	SMD RES.	1/10W 2.2K J
R105	VE-30000475	SMD RES.	1/10W 10K J
R106	VE-30000664	SMD RES.	1/10W 3.3K J
R107	VE-30000475	SMD RES.	1/10W 10K J
R108	VE-30000475	SMD RES.	1/10W 10K J
R110	VE-30000534	SMD RES.	1/10W 15K J
R111	VE-30000534	SMD RES.	1/10W 15K J
R112	VE-30000593	SMD RES.	1/10W 2.2K J
R117	VE-30000475	SMD RES.	1/10W 10K J
R119	VE-30000475	SMD RES.	1/10W 10K J
R120	VE-30000469	SMD RES.	1/10W 1K J
R121	VE-30006462	SMD RES.	1/10W 22R J
R122	VE-30000588	SMD RES.	1/10W 220R J
R125	VE-30000659	SMD RES.	1/10W 330R J
R126	VE-30000659	SMD RES.	1/10W 330R J
R127	VE-30000659	SMD RES.	1/10W 330R J
R128	VE-30000659	SMD RES.	1/10W 330R J
R129	VE-30000659	SMD RES.	1/10W 330R J
R130	VE-30000659	SMD RES.	1/10W 330R J
R131	VE-30000659	SMD RES.	1/10W 330R J
R132	VE-30000659	SMD RES.	1/10W 330R J
R133	VE-30000659	SMD RES.	1/10W 330R J

⚠ Symbol No.	Part No.	Part Name	Description
RESISTOR			
R134	VE-30000659	SMD RES.	1/10W 330R J
R135	VE-30000659	SMD RES.	1/10W 330R J
R136	VE-30000659	SMD RES.	1/10W 330R J
R137	VE-30000659	SMD RES.	1/10W 330R J
R138	VE-30000659	SMD RES.	1/10W 330R J
R140	VE-30000797	SMD RES.	1/10W 75R J
R141	VE-30000659	SMD RES.	1/10W 330R J
R142	VE-30000659	SMD RES.	1/10W 330R J
R143	VE-30000659	SMD RES.	1/10W 330R J
R144	VE-30000659	SMD RES.	1/10W 330R J
R145	VE-30000659	SMD RES.	1/10W 330R J
R149	VE-30000534	SMD RES.	1/10W 15K J
R150	VE-30000797	SMD RES.	1/10W 75R J
R151	VE-30000797	SMD RES.	1/10W 75R J
R152	VE-30000797	SMD RES.	1/10W 75R J
R153	VE-30000797	SMD RES.	1/10W 75R J
R154	VE-30000797	SMD RES.	1/10W 75R J
R155	VE-30000464	SMD RES.	1/10W 100R J
R156	VE-30000464	SMD RES.	1/10W 100R J
R157	VE-30000464	SMD RES.	1/10W 100R J
R158	VE-30000464	SMD RES.	1/10W 100R J
R159	VE-30000464	SMD RES.	1/10W 100R J
R161	VE-30000464	SMD RES.	1/10W 100R J
R162	VE-30000464	SMD RES.	1/10W 100R J
R163	VE-30000464	SMD RES.	1/10W 100R J
R164	VE-30000464	SMD RES.	1/10W 100R J
R165	VE-30000721	SMD RES.	1/10W 4.7K J
CAPACITOR			
C001	VE-30000309	SMD CAP.	2.2NF 50V K R
C002	VE-30000294	SMD CAP.	100NF 50V K
C003	VE-30000334	SMD CAP.	47NF 50V K
C004	VE-30000309	SMD CAP.	2.2NF 50V K R
C005	VE-30000186	SMD CAP.	10PF 50V D CDG
C006	VE-30000186	SMD CAP.	10PF 50V D CDG
C007	VE-30000232	SMD CAP.	270PF 50V J
C008	VE-30000265	SMD CAP.	560PF 50V J
C009	VE-30000309	SMD CAP.	2.2NF 50V K R
C010	VE-30000232	SMD CAP.	270PF 50V J
C011	VE-30000265	SMD CAP.	560PF 50V J
C012	VE-30000309	SMD CAP.	2.2NF 50V K R
C013	VE-30000232	SMD CAP.	270PF 50V J
C014	VE-30000265	SMD CAP.	560PF 50V J
C015	VE-30000309	SMD CAP.	2.2NF 50V K R
C016	VE-30000232	SMD CAP.	270PF 50V J
C017	VE-30000265	SMD CAP.	560PF 50V J
C018	VE-30000309	SMD CAP.	2.2NF 50V K R
C019	VE-30000309	SMD CAP.	2.2NF 50V K R
C020	VE-30000294	SMD CAP.	100NF 50V K
C021	VE-30000345	EL CAP.	10UF 50V M
C022	VE-30000345	EL CAP.	10UF 50V M
C024	VE-30000345	EL CAP.	10UF 50V M
C026	VE-30000345	EL CAP.	10UF 50V M
C027	VE-30000345	EL CAP.	10UF 50V M
C028	VE-30000345	EL CAP.	10UF 50V M
C029	VE-30000242	SMD CAP.	330PF 50V J
C030	VE-30010560	SMD CAP.	220NF 25V K R
C031	VE-30000242	SMD CAP.	330PF 50V J
C032	VE-30010560	SMD CAP.	220NF 25V K R
C033	VE-30000242	SMD CAP.	330PF 50V J
C034	VE-30010560	SMD CAP.	220NF 25V K R
C035	VE-30000109	MKT CAP.	470NF 63V J
C036	VE-30000345	EL CAP.	10UF 50V M
C037	VE-30000345	EL CAP.	10UF 50V M
C038	VE-30000289	SMD CAP.	10NF 50V K R
C039	VE-30000371	EL CAP.	22UF 50V M
C040	VE-30000392	EL CAP.	0.33UF 50V M
C041	VE-30000371	EL CAP.	22UF 50V M
C042	VE-30000392	EL CAP.	0.33UF 50V M
C043	VE-30000392	EL CAP.	0.33UF 50V M
C045	VE-30000294	SMD CAP.	100NF 50V K
C046	VE-30000294	SMD CAP.	100NF 50V K
C047	VE-30000294	SMD CAP.	100NF 50V K
C048	VE-30000232	SMD CAP.	270PF 50V J
C049	VE-30000265	SMD CAP.	560PF 50V J
C050	VE-30000309	SMD CAP.	2.2NF 50V K R
C051	VE-30000232	SMD CAP.	270PF 50V J
C052	VE-30000265	SMD CAP.	560PF 50V J
C053	VE-30000309	SMD CAP.	2.2NF 50V K R
C054	VE-30000228	SMD CAP.	27PF 50V J CH
C055	VE-30000228	SMD CAP.	27PF 50V J CH

[AV28BH7ENS / AV28BH7ENB]

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C056	VE-30000232	SMD CAP.	270PF 50V J
	C057	VE-30000265	SMD CAP.	560PF 50V J
	C058	VE-30000309	SMD CAP.	2.2NF 50V K R
	C059	VE-30000284	SMD CAP.	1NF 50V K R
	C060	VE-30000289	SMD CAP.	10NF 50V K R
	C061	VE-30000294	SMD CAP.	100NF 50V K
	C062	VE-30000294	SMD CAP.	100NF 50V K
	C063	VE-30000289	SMD CAP.	10NF 50V K R
	C064	VE-30000289	SMD CAP.	10NF 50V K R
	C065	VE-30000289	SMD CAP.	10NF 50V K R
	C066	VE-30000289	SMD CAP.	10NF 50V K R
	C067	VE-30000289	SMD CAP.	10NF 50V K R
	C068	VE-30000294	SMD CAP.	100NF 50V K
	C069	VE-30000289	SMD CAP.	10NF 50V K R
	C070	VE-30000289	SMD CAP.	10NF 50V K R
	C071	VE-30000289	SMD CAP.	10NF 50V K R
	C072	VE-30000309	SMD CAP.	2.2NF 50V K R
	C073	VE-30000265	SMD CAP.	560PF 50V J
	C074	VE-30000345	EL CAP.	10UF 50V M
	C075	VE-30000345	EL CAP.	10UF 50V M
	C076	VE-30000345	EL CAP.	10UF 50V M
	C077	VE-30000345	EL CAP.	10UF 50V M
	C078	VE-30000109	MKT CAP.	470NF 63V J
	C079	VE-30000109	MKT CAP.	470NF 63V J
	C080	VE-30000345	EL CAP.	10UF 50V M
	C081	VE-30000345	EL CAP.	10UF 50V M
	C082	VE-30000345	EL CAP.	10UF 50V M
	C083	VE-30000294	SMD CAP.	100NF 50V K
	C084	VE-30000186	SMD CAP.	10PF 50V D COG
	C085	VE-30000232	SMD CAP.	270PF 50V J
	C086	VE-30000309	SMD CAP.	2.2NF 50V K R
	C087	VE-30000265	SMD CAP.	560PF 50V J
	C088	VE-30000232	SMD CAP.	270PF 50V J
	C089	VE-30000232	SMD CAP.	270PF 50V J
	C090	VE-30000265	SMD CAP.	560PF 50V J
	C091	VE-30000309	SMD CAP.	2.2NF 50V K R
	C092	VE-30000309	SMD CAP.	2.2NF 50V K R
	C093	VE-30000265	SMD CAP.	560PF 50V J
	C094	VE-30000232	SMD CAP.	270PF 50V J
	C095	VE-30000232	SMD CAP.	270PF 50V J
	C096	VE-30000265	SMD CAP.	560PF 50V J
	C097	VE-30000309	SMD CAP.	2.2NF 50V K R
	C098	VE-30000345	EL CAP.	10UF 50V M
	C099	VE-30000345	EL CAP.	10UF 50V M
	C100	VE-30000393	EL CAP.	3.3UF 50V M
	C101	VE-30000392	EL CAP.	0.33UF 50V M
	C102	VE-30000345	EL CAP.	10UF 50V M
	C103	VE-30000289	SMD CAP.	10NF 50V K R
	C104	VE-30000284	SMD CAP.	1NF 50V K R
	C105	VE-30000294	SMD CAP.	100NF 50V K
	C106	VE-30000294	SMD CAP.	100NF 50V K
	C107	VE-30000186	SMD CAP.	10PF 50V D COG
	C108	VE-30000345	EL CAP.	10UF 50V M
	C109	VE-30000294	SMD CAP.	100NF 50V K
	C110	VE-30000186	SMD CAP.	10PF 50V D COG
	C111	VE-30000186	SMD CAP.	10PF 50V D COG
	C112	VE-30000284	SMD CAP.	1NF 50V K R
	C113	VE-30000242	SMD CAP.	330PF 50V J
	C25	VE-30000109	MKT CAP.	470NF 63V J

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L001	VE-30001992	FIXED COIL	10UH Q65 K-A
	L002	VE-30001992	FIXED COIL	10UH Q65 K-A
	L003	VE-30001992	FIXED COIL	10UH Q65 K-A
	L004	VE-30001986	FIXED COIL	3.3UH Q65 K
	L005	VE-30001986	FIXED COIL	3.3UH Q65 K
	L006	VE-30001996	FIXED COIL	22UH Q40 K
	L007	VE-30001986	FIXED COIL	3.3UH Q65 K
	L008	VE-30001986	FIXED COIL	3.3UH Q65 K
	L009	VE-30001986	FIXED COIL	3.3UH Q65 K
	L010	VE-30001986	FIXED COIL	3.3UH Q65 K

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D001	VE-30001284	DIODE	
	D002	VE-30001284	DIODE	
	D003	VE-30001284	DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q001	VE-30001454	TR	
	Q002	VE-30001454	TR	
	Q003	VE-30001455	TR	
	Q004	VE-30001454	TR	
	Q005	VE-30001454	TR	
	Q006	VE-30001455	TR	
	Q007	VE-30001454	TR	
	Q008	VE-30001454	TR	
	Q009	VE-30001455	TR	
	Q010	VE-30001454	TR	
	Q011	VE-30001454	TR	
	Q012	VE-30001455	TR	
	Q013	VE-30001454	TR	
	Q014	VE-30001454	TR	
	Q015	VE-30001454	TR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC001	VE-30010350	IC	
	IC002	VE-30010348	IC	
	IC003	VE-30007668	IC	
	IC004	VE-30007739	IC	
	IC005	VE-30010349	IC	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	X001	VE-30008778	XTAL	
	X002	VE-30008782	XTAL	
	Z1	VE-30001962	FERRITE	
	Z10	VE-30001962	FERRITE	
	Z14	VE-30001962	FERRITE	
	Z18	VE-30001962	FERRITE	
	Z24	VE-30001962	FERRITE	
	Z25	VE-30001962	FERRITE	
	Z26	VE-30001962	FERRITE	
	Z37	VE-30001962	FERRITE	
	Z38	VE-30001962	FERRITE	

CRT SOCKET P.W. BOARD ASS'Y (VE-30017303)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R901	VE-30000499	SMD RES.	1/10W 1.2K J
	R902	VE-30017132	MF RES.	51K 1W F
	R903	VE-30000499	SMD RES.	1/10W 1.2K J
	R904	VE-30000524	SMD RES.	1/10W 150R J
	R905	VE-30001192	MO RES.	1W 680R J
	R906	VE-30000499	SMD RES.	1/10W 1.2K J
	R907	VE-30017132	MF RES.	51K 1W F
	R908	VE-30000499	SMD RES.	1/10W 1.2K J
	R909	VE-30000524	SMD RES.	1/10W 150R J
	R910	VE-30001192	MO RES.	1W 680R J
	R911	VE-30000499	SMD RES.	1/10W 1.2K J
	R912	VE-30017132	MF RES.	51K 1W F
	R913	VE-30000499	SMD RES.	1/10W 1.2K J
	R914	VE-30000524	SMD RES.	1/10W 150R J
	R915	VE-30001192	MO RES.	1W 680R J
	R916	VE-30001125	MO RES.	2W 2.2K J
	R917	VE-30001170	MO RES.	1W 4.7K J
	R918	VE-30000788	CF RES.	1/4W 6.8M J
	R920	VE-30000535	CF RES.	1/2W 150K J
	R922	VE-30000477	CF RES.	1/4W 100K J
	R923	VE-30000477	CF RES.	1/4W 100K J
	R924	VE-30000477	CF RES.	1/4W 100K J
	R925	VE-30007788	SMD RES.	1/10W 2.7K F
	R926	VE-30000469	SMD RES.	1/10W 1K J
⚠	R927	VE-30001247	FUSE RES.	1/2W 4.7R J
	R929	VE-30000466	CF RES.	1/4W 1K J
	R931	VE-30000593	SMD RES.	1/10W 2.2K J
	R932	VE-30000471	CF RES.	1/4W 10K J
⚠	R944	VE-30001211	FUSE RES.	1W 1K J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C901	VE-30000275	C CAP.	8PF 50V D

[AV28BH7ENS / AV28BH7ENB]

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C902	VE-30000294	SMD CAP.	100NF 50V K
	C903	VE-30000075	MKT CAP.	100NF 250V K (DC)
	C904	VE-30000265	SMD CAP.	560PF 50V J
	C905	VE-30000209	SMD CAP.	18PF 50V J
	C906	VE-30000294	SMD CAP.	100NF 50V K
	C907	VE-30000075	MKT CAP.	100NF 250V K (DC)
	C908	VE-30000265	SMD CAP.	560PF 50V J
	C909	VE-30000220	SMD CAP.	22PF 50V J
	C910	VE-30000294	SMD CAP.	100NF 50V K
	C911	VE-30000075	MKT CAP.	100NF 250V K (DC)
	C912	VE-30000265	SMD CAP.	560PF 50V J
	C914	VE-30000072	MKT CAP.	10NF 1250V J
	C915	VE-30000415	EL CAP.	4.7UF 250V M
	C916	VE-30000330	C CAP.	4.7NF 50V K B
	C919	VE-30000352	EL CAP.	100UF 16V M
	C920	VE-30000294	SMD CAP.	100NF 50V K
	C921	VE-30000359	EL CAP.	1000UF 16V M
	C922	VE-30000075	MKT CAP.	100NF 250V K (DC)
	C923	VE-30000406	EL CAP.	47UF 250V M (HR)
	C931	VE-30000265	SMD CAP.	560PF 50V J
	C934	VE-30000294	SMD CAP.	100NF 50V K
	C935	VE-30000294	SMD CAP.	100NF 50V K
	C936	VE-30000075	MKT CAP.	100NF 250V K (DC)
	C938	VE-30000433	C CAP.	1NF 1KV M B
	C949	VE-30000294	SMD CAP.	100NF 50V K
	COIL			
	L904	VE-30001997	FIXED COIL	33UH Q60 J
	L905	VE-30001991	FIXED COIL	10UH RAD
	L921	VE-30001994	FIXED COIL	22UH J AXIAL
	DIODE			
	D902	VE-30001318	DIODE	
	D907	VE-30001284	DIODE	
	TRANSISTOR			
	Q901	VE-30001427	TR	
	Q902	VE-30001455	TR	
	IC			
	IC901	VE-20000989	HE.ASSY	
	IC902	VE-20000989	HE.ASSY	
	IC903	VE-20000989	HE.ASSY	
	OTHERS			
⚠	PL904	VE-30001855	CRT SOCKET	

FRONT CONTROL P.W. BOARD ASS'Y (VE-30017014)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R1	VE-30000689	CF RES.	1/4W 3.9K J
	R2	VE-30000526	CF RES.	1/4W 1.5K J
	R3	VE-30000770	CF RES.	1/4W 680R J
	R4	VE-30000712	CF RES.	1/4W 470R J
	R5	VE-30000622	CF RES.	1/4W 270R J
	DIODE			
	D1	VE-30001279	LED RED/GREEN	
	IC			
	IC1	VE-30001670	PREAMPLIFIER	
	OTHERS			
	SW1	VE-30002181	SWITCH TACT	V-
	SW2	VE-30002181	SWITCH TACT	MENU
	SW3	VE-30002181	SWITCH TACT	P+
	SW4	VE-30002181	SWITCH TACT	P-
	SW5	VE-30002181	SWITCH TACT	V+

FRONT AV + HEADPHONE JACK P.W. BOARD ASS'Y (VE-30016761)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R107	VE-30000594	CF RES.	1/4W 22K J
	R108	VE-30000712	CF RES.	1/4W 470R J
	R109	VE-30000594	CF RES.	1/4W 22K J
	R110	VE-30000712	CF RES.	1/4W 470R J
	R113	VE-30000744	CF RES.	1/4W 560R J
	R114	VE-30000744	CF RES.	1/4W 560R J
	R115	VE-30000712	CF RES.	1/4W 470R J
	R116	VE-30000712	CF RES.	1/4W 470R J
	CAPACITOR			
	C103	VE-30000213	C CAP.	180PF 50V J CH
	C104	VE-30000213	C CAP.	180PF 50V J CH
	C106	VE-30000190	C CAP.	100PF 50V J CH
	COIL			
	L103	VE-30001996	FIXED COIL	22UH Q40 K
	L104	VE-30001996	FIXED COIL	22UH Q40 K
	OTHERS			
	CON102	VE-30001893	RCA JACK	
	CON103	VE-30001891	RCA JACK	
	CON104	VE-30001892	RCA JACK	
	CON106	VE-30001900	HEADPHONE JACK	
	T103	VE-30001962	FERRITE	
	T104	VE-30001963	FERRITE	
	T107	VE-30001963	FERRITE	

PRINTED WIRING BOARD PARTS LIST

[AV28BHT7EPS / AV27BH7EPB]

MAIN P.W. BOARD ASS'Y (VE-20084599)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R101	VE-30000668	SMD RES.	1/10W 33K J
	R102	VE-30007782	MF RES.	1/4W 3.9M F
	R103	VE-30000855	MF RES.	1/4W 1M F
	R104	VE-30000668	SMD RES.	1/10W 33K J
	R105	VE-30000452	CF RES.	1/4W 10R J
	R106	VE-30000664	SMD RES.	1/10W 3.3K J
	R107	VE-30007019	SMD RES.	1/10W 10K F
	R108	VE-30007784	MO RES.	5W 33K J
⚠	R109	VE-30001270	PTC	9 OHM
	R116	VE-30001171	MO RES.	2W 4.7K J
⚠	R117	VE-30001257	MG RES.	1/2W 4.7M J
⚠	R118	VE-30009036	FUSE RES.	1/2W 0.1R J
⚠	R119	VE-30009036	FUSE RES.	1/2W 0.1R J
	R120	VE-30000814	SMD RES.	1/10W 820R J
	R122	VE-30000469	SMD RES.	1/10W 1K J
	R123	VE-30000469	SMD RES.	1/10W 1K J
	R124	VE-30000480	SMD RES.	1/10W 100K J
	R125	VE-30000927	MF RES.	1/4W 220K J
	R126	VE-30000664	SMD RES.	1/10W 3.3K J
	R127	VE-30000469	SMD RES.	1/10W 1K J
	R128	VE-30000536	CF RES.	1/4W 150K J
	R129	VE-30007019	SMD RES.	1/10W 10K F
	R130	VE-30000721	SMD RES.	1/10W 4.7K J
	R134	VE-30000469	SMD RES.	1/10W 1K J
	R135	VE-30007790	SMD RES.	1/10W 4.3K F
	R136	VE-30000774	SMD RES.	1/10W 680R J
	R137	VE-30007021	SMD RES.	1/10W 1K F
	R138	VE-30007786	SMD RES.	1/10W 2.55K F
	R139	VE-30000774	SMD RES.	1/10W 680R J
	R140	VE-30000459	CF RES.	1/4W 100R J
	R141	VE-30000475	SMD RES.	1/10W 10K J
	R142	VE-30000475	SMD RES.	1/10W 10K J
	R143	VE-30007021	SMD RES.	1/10W 1K F
	R144	VE-30007788	SMD RES.	1/10W 2.7K F
	R145	VE-30000732	SMD RES.	1/10W 470K J
	R146	VE-30000469	SMD RES.	1/10W 1K J
⚠	R148	VE-30014023	FUSE RES.	1/2W 0.1R J
	R149	VE-30007204	MF RES.	1/2W 1.5M F
⚠	R150	VE-30007783	FUSE RES.	1/4W 2.2R J
⚠	R151	VE-30014023	FUSE RES.	1/2W 0.1R J
	R152	VE-30000659	SMD RES.	1/10W 330R J
	R153	VE-30012649	SMD RES.	1/16W 150R J
	R154	VE-30012984	SMD RES.	1/16W 91R J
	R155	VE-30000712	CF RES.	1/4W 470R J
	R156	VE-30001089	MO RES.	2W 1R J
	R157	VE-30000534	SMD RES.	1/10W 15K J
	R158	VE-30000475	SMD RES.	1/10W 10K J
	R159	VE-30000480	SMD RES.	1/10W 100K J
	R160	VE-30006923	SMD RES.	1/10W 4.3K J
	R202	VE-30007779	MO RES.	5W 47R J
	R203	VE-30000534	SMD RES.	1/10W 15K J
	R205	VE-30001004	MF RES.	1/2W 0.56R J
	R206	VE-30001079	MO RES.	1W 100R J
	R210	VE-30000583	CF RES.	1/4W 220R J
	R211	VE-30000721	SMD RES.	1/10W 4.7K J
	R212	VE-30000593	SMD RES.	1/10W 2.2K J
	R213	VE-30000593	SMD RES.	1/10W 2.2K J
	R214	VE-30000593	SMD RES.	1/10W 2.2K J
	R215	VE-30000721	SMD RES.	1/10W 4.7K J
	R216	VE-30000631	SMD RES.	1/10W 2.7K J
	R217	VE-30000593	SMD RES.	1/10W 2.2K J
	R218	VE-30000480	SMD RES.	1/10W 100K J
	R220	VE-30000590	CF RES.	1/4W 2.2K J
	R225	VE-30001086	MO RES.	2W 10K J
	R226	VE-30001168	MO RES.	2W 470RJ
	R227	VE-30000469	SMD RES.	1/10W 1K J
	R228	VE-30000475	SMD RES.	1/10W 10K J
	R229	VE-30000727	SMD RES.	1/10W 47K J
	R230	VE-30000902	MF RES.	1/4W 1.8K F
⚠	R231	VE-30001229	FUSE RES.	1W 2.2R J
	R232	VE-30000477	CF RES.	1/4W 100K J
⚠	R233	VE-30001244	FUSE RES.	0.47R 1/2W J
⚠	R234	VE-30009036	FUSE RES.	1/2W 0.1R J
	R235	VE-30000668	SMD RES.	1/10W 33K J
	R236	VE-30000718	CF RES.	1/4W 4.7K J
⚠	R237	VE-30001244	FUSE RES.	0.47R 1/2W J
	R238	VE-30000729	CF RES.	1/4W 470K J
	R239	VE-30001089	MO RES.	2W 1R J
	R240	VE-30000469	SMD RES.	1/10W 1K J
	R241	VE-30000818	SMD RES.	1/10W 8.2K J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R242	VE-30000784	CF RES.	1/4W 680K J
	R245	VE-30000466	CF RES.	1/4W 1K J
	R246	VE-30000752	CF RES.	1/4W 56K J
	R250	VE-30000477	CF RES.	1/4W 100K J
	R251	VE-30000477	CF RES.	1/4W 100K J
	R252	VE-30007789	SMD RES.	1/10W 27K F
	R254	VE-30000636	SMD RES.	1/10W 27K J
	R255	VE-30001134	MO RES.	2W 2.2R J
	R256	VE-30001100	MO RES.	1W 150R J
	R257	VE-30001173	MO RES.	1W 0.47R J
	R260	VE-30000778	SMD RES.	1/10W 6.8K J
	R261	VE-30000778	SMD RES.	1/10W 6.8K J
⚠	R262	VE-30001237	FUSE RES.	1/2W 3.3R J
	R264	VE-30001077	MO RES.	2W 10R J
	R270	VE-30000541	CF RES.	1/4W 1.5M J
	R271	VE-30000744	CF RES.	1/4W 560R J
	R272	VE-30000475	SMD RES.	1/10W 10K J
	R280	VE-30000480	SMD RES.	1/10W 100K J
	R281	VE-30000480	SMD RES.	1/10W 100K J
	R318	VE-30000469	SMD RES.	1/10W 1K J
	R322	VE-30000594	CF RES.	1/4W 22K J
	R323	VE-30000459	CF RES.	1/4W 100R J
	R324	VE-30000464	SMD RES.	1/10W 100R J
	R327	VE-30000464	SMD RES.	1/10W 100R J
	R360	VE-30000659	SMD RES.	1/10W 330R J
	R361	VE-30000659	SMD RES.	1/10W 330R J
	R362	VE-30000659	SMD RES.	1/10W 330R J
	R363	VE-30000659	SMD RES.	1/10W 330R J
	R364	VE-30000659	SMD RES.	1/10W 330R J
	R365	VE-30000659	SMD RES.	1/10W 330R J
	R366	VE-30000659	SMD RES.	1/10W 330R J
	R367	VE-30000659	SMD RES.	1/10W 330R J
	R368	VE-30000659	SMD RES.	1/10W 330R J
	R369	VE-30000659	SMD RES.	1/10W 330R J
	R370	VE-30000659	SMD RES.	1/10W 330R J
	R371	VE-30000659	SMD RES.	1/10W 330R J
	R372	VE-30000659	SMD RES.	1/10W 330R J
	R373	VE-30000659	SMD RES.	1/10W 330R J
	R374	VE-30000659	SMD RES.	1/10W 330R J
	R375	VE-30000659	SMD RES.	1/10W 330R J
	R376	VE-30000659	SMD RES.	1/10W 330R J
	R378	VE-30000659	SMD RES.	1/10W 330R J
	R379	VE-30000659	SMD RES.	1/10W 330R J
	R380	VE-30000659	SMD RES.	1/10W 330R J
	R381	VE-30000659	SMD RES.	1/10W 330R J
	R382	VE-30000659	SMD RES.	1/10W 330R J
	R383	VE-30000659	SMD RES.	1/10W 330R J
	R384	VE-30000659	SMD RES.	1/10W 330R J
	R385	VE-30000659	SMD RES.	1/10W 330R J
	R397	VE-30000659	SMD RES.	1/10W 330R J
	R398	VE-30000659	SMD RES.	1/10W 330R J
	R401	VE-30000665	CF RES.	1/4W 33K J
	R403	VE-30000668	SMD RES.	1/10W 33K J
	R411	VE-30000747	SMD RES.	1/10W 560R J
	R412	VE-30000721	SMD RES.	1/10W 4.7K J
	R413	VE-30000475	SMD RES.	1/10W 10K J
	R414	VE-30000469	SMD RES.	1/10W 1K J
	R415	VE-30000517	SMD RES.	1/10W 15R J
	R416	VE-30000717	SMD RES.	1/10W 470R J
	R417	VE-30000778	SMD RES.	1/10W 6.8K J
	R418	VE-30000593	SMD RES.	1/10W 2.2K J
	R421	VE-30000563	SMD RES.	1/10W 1.8K J
	R422	VE-30000464	SMD RES.	1/10W 100R J
	R424	VE-30007021	SMD RES.	1/10W 1K F
	R425	VE-30000797	SMD RES.	1/10W 75R J
	R428	VE-30000475	SMD RES.	1/10W 10K J
	R429	VE-30000475	SMD RES.	1/10W 10K J
	R432	VE-30000787	SMD RES.	1/10W 680K J
	R436	VE-30000735	SMD RES.	1/10W 4.7R J
	R437	VE-30000499	SMD RES.	1/10W 1.2K J
	R438	VE-30000655	CF RES.	1/4W 330R J
	R439	VE-30000563	SMD RES.	1/10W 1.8K J
	R440	VE-30000614	SMD RES.	1/10W 2.4K J
	R441	VE-30000475	SMD RES.	1/10W 10K J
	R445	VE-30000814	SMD RES.	1/10W 820R J
	R446	VE-30000469	SMD RES.	1/10W 1K J
	R447	VE-30000469	SMD RES.	1/10W 1K J
	R475	VE-30000524	SMD RES.	1/10W 150R J
	R480	VE-30000718	CF RES.	1/4W 4.7K J
	R490	VE-30000466	CF RES.	1/4W 1K J

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⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R492	VE-30000503	SMD RES.	1/10W 12K J
	R506	VE-30012695	SMD RES.	1/16W 470R J
	R509	VE-30000797	SMD RES.	1/10W 75R J
	R510	VE-30007021	SMD RES.	1/10W 1K F
	R511	VE-30000464	SMD RES.	1/10W 100R J
	R512	VE-30000464	SMD RES.	1/10W 100R J
	R513	VE-30000457	SMD RES.	1/10W 10R J
	R516	VE-30000664	SMD RES.	1/10W 3.3K J
	R517	VE-30000664	SMD RES.	1/10W 3.3K J
	R518	VE-30000735	SMD RES.	1/10W 4.7R J
	R801	VE-30000718	CF RES.	1/4W 4.7K J
	R802	VE-30000718	CF RES.	1/4W 4.7K J
	R803	VE-30000628	CF RES.	1/4W 2.7K J
	R804	VE-30000475	SMD RES.	1/10W 10K J
	R805	VE-30000534	SMD RES.	1/10W 15K J
	R806	VE-30000531	CF RES.	1/4W 15K J
	R807	VE-30000567	SMD RES.	1/10W 18K J
	R808	VE-30000734	CF RES.	1/4W 4.7R J
	R809	VE-30000717	SMD RES.	1/10W 470R J
	R810	VE-30000564	CF RES.	1/4W 18K J
	R811	VE-30000717	SMD RES.	1/10W 470R J
	R812	VE-30000734	CF RES.	1/4W 4.7R J
	R813	VE-30000475	SMD RES.	1/10W 10K J
	R819	VE-30000734	CF RES.	1/4W 4.7R J
	R820	VE-30000734	CF RES.	1/4W 4.7R J
	R900	VE-30012641	SMD RES.	1/16W 10K J
	R901	VE-30012641	SMD RES.	1/16W 10K J
	R902	VE-30012641	SMD RES.	1/16W 10K J
	R903	VE-30000718	CF RES.	1/4W 4.7K J
	R904	VE-30000718	CF RES.	1/4W 4.7K J
	R905	VE-30000723	CF RES.	1/4W 47K J
	R906	VE-30012696	SMD RES.	1/16W 47K J
	R907	VE-30012679	SMD RES.	1/16W 3.9K J
	R908	VE-30012679	SMD RES.	1/16W 3.9K J
	R909	VE-30000531	CF RES.	1/4W 15K J
	R910	VE-30000531	CF RES.	1/4W 15K J
	R911	VE-30012641	SMD RES.	1/16W 10K J
	R912	VE-30000471	CF RES.	1/4W 10K J
	R913	VE-30012641	SMD RES.	1/16W 10K J
	R914	VE-30000471	CF RES.	1/4W 10K J
	R915	VE-30000471	CF RES.	1/4W 10K J
	R916	VE-30012695	SMD RES.	1/16W 470R J
	R917	VE-30012987	SMD RES.	1/16W 56R J
	R918	VE-30012692	SMD RES.	1/16W 4.7K J
	R919	VE-30012657	SMD RES.	1/16W 1K J
	R920	VE-30012657	SMD RES.	1/16W 1K J
	R921	VE-30012657	SMD RES.	1/16W 1K J
	R922	VE-30012657	SMD RES.	1/16W 1K J
	R923	VE-30012657	SMD RES.	1/16W 1K J
	R924	VE-30012696	SMD RES.	1/16W 47K J
	R925	VE-30012696	SMD RES.	1/16W 47K J
	R926	VE-30012696	SMD RES.	1/16W 47K J
	R927	VE-30012696	SMD RES.	1/16W 47K J
	R928	VE-30012510	SMD RES.	1/16W 100R J
	R929	VE-30012510	SMD RES.	1/16W 100R J
	R930	VE-30012641	SMD RES.	1/16W 10K J
	R931	VE-30012641	SMD RES.	1/16W 10K J
	R932	VE-30012641	SMD RES.	1/16W 10K J
	R933	VE-30000718	CF RES.	1/4W 4.7K J
	R934	VE-30012692	SMD RES.	1/16W 4.7K J
	R935	VE-30012662	SMD RES.	1/16W 2.7K J
	R936	VE-30000718	CF RES.	1/4W 4.7K J
	R937	VE-30000459	CF RES.	1/4W 100R J
	R938	VE-30012509	SMD RES.	1/16W 100K J
	R939	VE-30012692	SMD RES.	1/16W 4.7K J
	R940	VE-30000500	CF RES.	1/4W 12K J
	R941	VE-30000588	SMD RES.	1/10W 220R J
	R942	VE-30000588	SMD RES.	1/10W 220R J
	R943	VE-30000471	CF RES.	1/4W 10K J
	R944	VE-30012641	SMD RES.	1/16W 10K J
	R945	VE-30000471	CF RES.	1/4W 10K J
	R946	VE-30012657	SMD RES.	1/16W 1K J
	R950	VE-30012657	SMD RES.	1/16W 1K J
	R951	VE-30012657	SMD RES.	1/16W 1K J
	R952	VE-30012657	SMD RES.	1/16W 1K J
	R953	VE-30000466	CF RES.	1/4W 1K J
	R955	VE-30012657	SMD RES.	1/16W 1K J
	R956	VE-30012510	SMD RES.	1/16W 100R J
	R957	VE-30012655	SMD RES.	1/16W 180R J
	R958	VE-30014022	SMD RES.	1/16W 47R J
	R959	VE-30000466	CF RES.	1/4W 1K J
	R960	VE-30000471	CF RES.	1/4W 10K J
	R961	VE-30000718	CF RES.	1/4W 4.7K J
	R964	VE-30012641	SMD RES.	1/16W 10K J

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R965	VE-30012657	SMD RES.	1/16W 1K J
	R966	VE-30012641	SMD RES.	1/16W 10K J
	CAPACITOR			
	C100	VE-30000098	MKT CAP.	3.3NF 63V J
	C101	VE-30000371	EL CAP.	22UF 50V M
	C102	VE-30000294	SMD CAP.	100NF 50V K
	C103	VE-30000294	SMD CAP.	100NF 50V K
	C104	VE-30012323	MKT CAP.	1NF 100V J
	C105	VE-30000284	SMD CAP.	1NF 50V K R
	C106	VE-30000332	SMD CAP.	4.7NF 50V K
	C107	VE-30000263	SMD CAP.	56PF 50V J
	C108	VE-30000123	PP CAP.	33NF 630V K
	C109	VE-30000159	MKP CAP.	4.7NF 1.6KV J
	C110	VE-30009208	C CAP.	470PF 1KV K
	C111	VE-30000131	MKP CAP.	100NF 250V J
⚠	C112	VE-30000094	MKT CAP.	220NF AC275V M
	C114	VE-30000353	EL CAP.	100UF 25V M
⚠	C115	VE-30007858	MKT CAP.	470NF AC275V M
⚠	C118	VE-30007755	MKT CAP.	680NF AC275V M
	C119	VE-30007754	MKP CAP.	1UF 400V
	C120	VE-30007753	MKP CAP.	1NF 1KV
	C121	VE-30013690	EL CAP.	220UF 450V M
⚠	C122	VE-30000447	C CAP.	4.7NF 4KV M E
	C124	VE-30000315	SMD CAP.	220NF 25V Z
	C125	VE-30000315	SMD CAP.	220NF 25V Z
	C130	VE-30007708	C CAP.	1NF 1KV K
	C131	VE-30006909	EL CAP.	1000UF M 250V
	C132	VE-30007750	EL CAP.	470UF 35V
	C133	VE-30000409	EL CAP.	470UF 25V M
	C134	VE-30007750	EL CAP.	470UF 35V
	C135	VE-30007748	EL CAP.	1000UF 35V M
	C136	VE-30007748	EL CAP.	1000UF 35V M
	C137	VE-30000284	SMD CAP.	1NF 50V K R
	C138	VE-30000224	SMD CAP.	220PF 50V J
	C139	VE-30000284	SMD CAP.	1NF 50V K R
	C140	VE-30000360	EL CAP.	1000UF 25V M
	C141	VE-30000352	EL CAP.	100UF 16V M
	C142	VE-30000294	SMD CAP.	100NF 50V K
	C143	VE-30000294	SMD CAP.	100NF 50V K
	C144	VE-30000352	EL CAP.	100UF 16V M
	C145	VE-30000309	SMD CAP.	2.2NF 50V K R
	C146	VE-30000359	EL CAP.	1000UF 16V M
	C147	VE-30000359	EL CAP.	1000UF 16V M
	C148	VE-30000294	SMD CAP.	100NF 50V K
	C149	VE-30000294	SMD CAP.	100NF 50V K
	C150	VE-30000352	EL CAP.	100UF 16V M
	C151	VE-30000284	SMD CAP.	1NF 50V K R
	C160	VE-30007081	EL CAP.	4.7UF 50V M
	C161	VE-30007308	C CAP.	220PF 1KV K
	C162	VE-30007308	C CAP.	220PF 1KV K
	C163	VE-30009208	C CAP.	470PF 1KV K
	C165	VE-30016654	SMD CAP.	100NF 16V K R
	C166	VE-30000400	EL CAP.	47UF 50V M
	C167	VE-30009208	C CAP.	470PF 1KV K
	C168	VE-30000294	SMD CAP.	100NF 50V K
	C170	VE-30000352	EL CAP.	100UF 16V M
	C171	VE-30000352	EL CAP.	100UF 16V M
	C172	VE-30016654	SMD CAP.	100NF 16V K R
	C173	VE-30000315	SMD CAP.	220NF 25V Z
	C201	VE-30000360	EL CAP.	1000UF 25V M
	C202	VE-30000106	MKT CAP.	47NF 100V J
	C203	VE-30000099	MKT CAP.	33NF 63V J
	C204	VE-30000345	EL CAP.	10UF 50V M
	C206	VE-30000315	SMD CAP.	220NF 25V Z
	C207	VE-30000362	EL CAP.	1UF 50V M
	C208	VE-30000415	EL CAP.	4.7UF 250V M
	C209	VE-30000224	SMD CAP.	220PF 50V J
	C210	VE-30000149	MKP CAP.	2.7NF 2KV 3.5%
	C211	VE-30000179	MKP CAP.	9.1NF 1600V 3.5%
	C212	VE-30000137	MKP CAP.	15NF 630V J
	C213	VE-30007215	MKP CAP.	1.2UF 250V J
	C214	VE-30000415	EL CAP.	4.7UF 250V M
	C215	VE-30000166	MKP CAP.	560NF 250V J
	C216	VE-30000415	EL CAP.	4.7UF 250V M
	C222	VE-30000431	C CAP.	100PF 1KV M
	C223	VE-30000351	EL CAP.	10UF 350V M
	C225	VE-30000359	EL CAP.	1000UF 16V M
	C226	VE-30000356	EL CAP.	100UF 63V M
	C228	VE-30000360	EL CAP.	1000UF 25V M
	C232	VE-30000225	C CAP.	220PF 50V J SL
	C240	VE-30000400	EL CAP.	47UF 50V M

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⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C250	VE-30000304	SMD CAP.	1.8NF 50V K R
	C251	VE-30000359	EL CAP.	1000UF 16V M
	C252	VE-30000289	SMD CAP.	10NF 50V K R
	C253	VE-30000294	SMD CAP.	100NF 50V K
	C254	VE-30000360	EL CAP.	1000UF 25V M
	C255	VE-30000294	SMD CAP.	100NF 50V K
	C256	VE-30000092	MKT CAP.	220NF 63V J
	C257	VE-30000304	SMD CAP.	1.8NF 50V K R
	C258	VE-30000322	SMD CAP.	3.3NF 50V K
	C305	VE-30000294	SMD CAP.	100NF 50V K
	C313	VE-30000189	SMD CAP.	100PF 50V J
	C321	VE-30000352	EL CAP.	100UF 16V M
	C322	VE-30000352	EL CAP.	100UF 16V M
	C324	VE-30000294	SMD CAP.	100NF 50V K
	C333	VE-30000294	SMD CAP.	100NF 50V K
	C402	VE-30000345	EL CAP.	10UF 50V M
	C403	VE-30000384	EL CAP.	2.2UF 50V M
	C404	VE-30000284	SMD CAP.	1NF 50V K R
	C405	VE-30000284	SMD CAP.	1NF 50V K R
	C406	VE-30000224	SMD CAP.	220PF 50V J
	C407	VE-30000312	SMD CAP.	22NF 50V K
	C408	VE-30000371	EL CAP.	22UF 50V M
	C409	VE-30000294	SMD CAP.	100NF 50V K
	C410	VE-30000294	SMD CAP.	100NF 50V K
	C411	VE-30000109	MKT CAP.	470NF 63V J
	C412	VE-30000384	EL CAP.	2.2UF 50V M
	C413	VE-30000294	SMD CAP.	100NF 50V K
	C414	VE-30000294	SMD CAP.	100NF 50V K
	C417	VE-30000294	SMD CAP.	100NF 50V K
	C418	VE-30000294	SMD CAP.	100NF 50V K
	C419	VE-30000294	SMD CAP.	100NF 50V K
	C424	VE-30000387	EL CAP.	33UF 50V M
	C427	VE-30000294	SMD CAP.	100NF 50V K
	C428	VE-30000294	SMD CAP.	100NF 50V K
	C430	VE-30000294	SMD CAP.	100NF 50V K
	C440	VE-30000400	EL CAP.	47UF 50V M
	C441	VE-30000220	SMD CAP.	22PF 50V J
	C442	VE-30000294	SMD CAP.	100NF 50V K
	C443	VE-30013411	SMD CAP.	180PF 50V J
	C450	VE-30000345	EL CAP.	10UF 50V M
	C451	VE-30000294	SMD CAP.	100NF 50V K
	C453	VE-30000355	EL CAP.	100UF 50V M
	C454	VE-30000294	SMD CAP.	100NF 50V K
	C456	VE-30000352	EL CAP.	100UF 16V M
	C457	VE-30000294	SMD CAP.	100NF 50V K
	C468	VE-30000294	SMD CAP.	100NF 50V K
	C478	VE-30000294	SMD CAP.	100NF 50V K
	C479	VE-30000362	EL CAP.	1UF 50V M
	C492	VE-30000294	SMD CAP.	100NF 50V K
	C493	VE-30000384	EL CAP.	2.2UF 50V M
	C494	VE-30000345	EL CAP.	10UF 50V M
	C496	VE-30000413	EL CAP.	4.7UF 50V M
	C497	VE-30000294	SMD CAP.	100NF 50V K
	C498	VE-30000294	SMD CAP.	100NF 50V K
	C499	VE-30000362	EL CAP.	1UF 50V M
	C500	VE-30000352	EL CAP.	100UF 16V M
	C505	VE-30000294	SMD CAP.	100NF 50V K
	C506	VE-30000345	EL CAP.	10UF 50V M
	C509	VE-30000186	SMD CAP.	10PF 50V D
	C510	VE-30000186	SMD CAP.	10PF 50V D
	C511	VE-30000341	SMD CAP.	68NF 50V K
	C610	VE-30000074	MKT CAP.	100NF 63V J
	C801	VE-30000362	EL CAP.	1UF 50V M
	C802	VE-30000362	EL CAP.	1UF 50V M
	C803	VE-30000362	EL CAP.	1UF 50V M
	C804	VE-30000409	EL CAP.	470UF 25V M
	C805	VE-30000294	SMD CAP.	100NF 50V K
	C806	VE-30000409	EL CAP.	470UF 25V M
	C807	VE-30000294	SMD CAP.	100NF 50V K
	C808	VE-30000074	MKT CAP.	100NF 63V J
	C809	VE-30000074	MKT CAP.	100NF 63V J
	C819	VE-30000309	SMD CAP.	2.2NF 50V K R
	C820	VE-30000309	SMD CAP.	2.2NF 50V K R
	C821	VE-30000309	SMD CAP.	2.2NF 50V K R
	C822	VE-30000309	SMD CAP.	2.2NF 50V K R
	C900	VE-30000371	EL CAP.	22UF 50V M
	C901	VE-30016654	SMD CAP.	100NF 16V K R
	C902	VE-30016654	SMD CAP.	100NF 16V K R
	C903	VE-30016654	SMD CAP.	100NF 16V K R
	C904	VE-30000074	MKT CAP.	100NF 63V J
	C905	VE-30000371	EL CAP.	22UF 50V M
	C906	VE-30016654	SMD CAP.	100NF 16V K R
	C907	VE-30000074	MKT CAP.	100NF 63V J
	C908	VE-30016654	SMD CAP.	100NF 16V K R

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C909	VE-30016654	SMD CAP.	100NF 16V K R
	C910	VE-30016654	SMD CAP.	100NF 16V K R
	C911	VE-30000352	EL CAP.	100UF 16V M
	C912	VE-30012569	SMD CAP.	33PF 50V J
	C913	VE-30012569	SMD CAP.	33PF 50V J
	C914	VE-30000371	EL CAP.	22UF 50V M
	C915	VE-30016654	SMD CAP.	100NF 16V K R
	C916	VE-30016654	SMD CAP.	100NF 16V K R
	C917	VE-30016654	SMD CAP.	100NF 16V K R
	C918	VE-30016654	SMD CAP.	100NF 16V K R
	C919	VE-30000375	EL CAP.	220UF 16V M
	C920	VE-30000384	EL CAP.	2.2UF 50V M
	C921	VE-30016654	SMD CAP.	100NF 16V K R
	C926	VE-30016654	SMD CAP.	100NF 16V K R
	C927	VE-30016654	SMD CAP.	100NF 16V K R
	C930	VE-30000345	EL CAP.	10UF 50V M
	C931	VE-30000257	C CAP.	470PF 50V J SL
	C932	VE-30016654	SMD CAP.	100NF 16V K R
	C933	VE-30000294	SMD CAP.	100NF 50V K
	TRANSF			
⚠	TR101	VE-30016819	SMPS TRF	
	TR201	VE-30006743	TRF. HORIZONTAL DRIVER	
⚠	TR202	VE-30016922	FBT TRF	
	COIL			
	L101	VE-30006712	FERRITE BEAD	
	L102	VE-30007775	PFC COIL	1MH 1KHZ 2A
⚠	L103	VE-30006744	LINE FILTER	16MH
⚠	L104	VE-30006744	LINE FILTER	16MH
	L106	VE-30006712	FERRITE BEAD	
	L107	VE-30001960	FERIT BAR	
	L108	VE-30001960	FERIT BAR	
	L109	VE-30001960	FERIT BAR	
	L201	VE-30007771	FIXED COIL	100UH
	L202	VE-30007757	COIL INJECTION EW	6MH
	L203	VE-30007770	FILTER COIL	1MH
	L204	VE-30012271	LINEARTY COIL	4.3UH
	L205	VE-30007756	BRIDGE COIL	150UH 32KHZ
	L206	VE-30006712	FERRITE BEAD	
	L207	VE-30006712	FERRITE BEAD	
	L304	VE-30001992	FIXED COIL	10UH Q65 K-A
	L401	VE-30001986	FIXED COIL	3.3UH Q65 K
	L403	VE-30001979	FIXED COIL	1UH Q45 M-A
	L405	VE-30001987	FIXED COIL	4.7UH Q70 K-A
	L420	VE-30001996	FIXED COIL	22UH Q40 K
	L421	VE-30001992	FIXED COIL	10UH Q65 K-A
	L422	VE-30001994	FIXED COIL	22UH J AXIAL
	L423	VE-30001994	FIXED COIL	22UH J AXIAL
	L425	VE-30001971	FERRITE BEAD	
	L801	VE-30002170	COIL FTZ/RAD	
	L802	VE-30002170	COIL FTZ/RAD	
	L900	VE-30001992	FIXED COIL	10UH Q65 K-A
	L901	VE-30001992	FIXED COIL	10UH Q65 K-A
	L902	VE-30001992	FIXED COIL	10UH Q65 K-A
	L903	VE-30001992	FIXED COIL	10UH Q65 K-A
	L904	VE-30001987	FIXED COIL	4.7UH Q70 K-A
	L905	VE-30001984	FIXED COIL	2.2UH Q55 M-AX
	L906	VE-30002171	CHOKE PEAKING COIL	22UH K
	DIODE			
	D101	VE-30001285	DIODE	
	D102	VE-30001291	DIODE	
	D103	VE-30007768	DIODE	
	D104	VE-30007768	DIODE	
	D105	VE-30007768	DIODE	
	D106	VE-30007758	BRIDGE DIODE	
	D108	VE-30001318	DIODE	
	D109	VE-30009699	ZENER DIODE	
	D110	VE-20063054	DIODE	
	D111	VE-30001299	DIODE	
	D112	VE-30001302	DIODE	
	D113	VE-30001302	DIODE	
	D114	VE-30001302	DIODE	
	D115	VE-30001285	DIODE	
	D116	VE-30007760	ZENER DIODE	
	D117	VE-30001285	DIODE	
	D118	VE-30007760	ZENER DIODE	

[AV28BHT7EPS / AV27BH7EPB]

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D119	VE-30001284	DIODE	
	D120	VE-30001291	DIODE	
	D121	VE-30001318	DIODE	
	D122	VE-30001318	DIODE	
	D123	VE-30001285	DIODE	
	D126	VE-30001284	DIODE	
	D127	VE-30001284	DIODE	
	D128	VE-30001284	DIODE	
	D201	VE-30001291	DIODE	
	D202	VE-30001285	DIODE	
	D203	VE-30007760	ZENER DIODE	
	D205	VE-30007763	ZENER DIODE	
	D206	VE-30007678	DIODE GUC	
	D207	VE-30007768	DIODE	
	D208	VE-30001291	DIODE	
	D209	VE-30001291	DIODE	
	D210	VE-30001299	DIODE	
	D211	VE-30001299	DIODE	
	D212	VE-30001291	DIODE	
	D213	VE-30001291	DIODE	
	D214	VE-30007763	ZENER DIODE	
	D215	VE-30007762	ZENER DIODE	
	D216	VE-30001285	DIODE	
	D218	VE-30001291	DIODE	
	D219	VE-30001291	DIODE	
	D220	VE-30001284	DIODE	
	D221	VE-30001284	DIODE	
	D222	VE-30001284	DIODE	
	D223	VE-30001285	DIODE	
	D224	VE-30001285	DIODE	
	D225	VE-30001318	DIODE	
	D401	VE-30001285	DIODE	
	D402	VE-30001285	DIODE	
	D403	VE-30001285	DIODE	
	D900	VE-30012412	ZENER DIODE	
	D901	VE-30007761	ZENER DIODE	

TRANSISTOR

	Q101	VE-30007801	TR
	Q103	VE-30007802	TR
	Q104	VE-30007798	TR
	Q105	VE-30007798	TR
	Q106	VE-30007802	TR
	Q107	VE-30007798	TR
	Q108	VE-30007798	TR
	Q109	VE-30001457	TR
	Q110	VE-30001457	TR
	Q112	VE-30001454	TR
	Q113	VE-30001428	TR
	Q201	VE-30007802	TR
	Q202	VE-30016686	TR
	Q203	VE-30001458	TR
	Q204	VE-30001458	TR
	Q205	VE-30007799	TR
	Q206	VE-30001457	TR
	Q207	VE-30001457	TR
	Q208	VE-30001455	TR
	Q401	VE-30001457	TR
	Q403	VE-30001457	TR
	Q405	VE-30001457	TR
	Q406	VE-30001457	TR
	Q408	VE-30007800	TR
	Q415	VE-30001457	TR
	Q801	VE-30001457	TR
	Q802	VE-30001457	TR
	Q900	VE-30001458	TR
	Q901	VE-30001457	TR
	Q902	VE-30001457	TR
	Q903	VE-30001457	TR
	Q904	VE-30001457	TR
	Q905	VE-30001457	TR
	Q906	VE-30001457	TR
	Q907	VE-30001457	TR
	Q908	VE-30001457	TR
	Q909	VE-30001458	TR
	Q910	VE-30001457	TR
	Q911	VE-30001457	TR

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC101	VE-30007442	IC	
⚠	IC102	VE-30015087	IC	

⚠	Symbol No.	Part No.	Part Name	Description
	IC103	VE-30001506	IC	
	IC104	VE-30007444	IC	
	IC105	VE-30001500	IC	
	IC106	VE-30001668	IC	
	IC201	VE-30007793	IC	
	IC202	VE-30001506	IC	
	IC302	VE-30015382	IC(MEMORY)	
	IC304	VE-30016491	IC	
	IC401	VE-30001494	IC	
	IC801	VE-30007794	IC	
	IC802	VE-30007794	IC	
	IC900	VE-30013571	IC(MYCOM)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
⚠	F101	VE-20000849	FUSE ASSY	3.15A
⚠	F102	VE-30009037	FUSE	6.3A
⚠	F103	VE-30009037	FUSE	6.3A
	RL2	VE-30002183	RELAY	
	S133	VE-30000575	SMD RES.	1/10W 2K J
	T401	VE-30001724	SER FILTER	
	T402	VE-30001726	SER FILTER	
	TU401	VE-30009637	TUNER	
	VL401	VE-30002036	ADJ COIL VIF	
	VR127	VE-30001041	ADJ RES.	0.15W 1K M VER
	VR401	VE-30001069	ADJ RES.	0.15W 47K VER (MAN)
	X900	VE-30006662	XTAL	6MHZ
	Z401	VE-30001706	SAW FILTER	
	Z403	VE-30001692	SAW FILTER	

MULTISOUND P.W. BOARD ASS'Y (VE-30017302)

Refer to PARTS LIST in page 27 for this P.W. board.

FEATURE BOX P.W. BOARD ASS'Y (VE-30013755)

Refer to PARTS LIST in page 29 for this P.W. board.

CRT SOCKET P.W. BOARD ASS'Y (VE-30017303)

Refer to PARTS LIST in page 30 for this P.W. board.

FRONT CONTROL P.W. BOARD ASS'Y (VE-30017014)

Refer to PARTS LIST in page 31 for this P.W. board.

FRONT AV + HEADPHONE JACK P.W. BOARD ASS'Y (VE-30016761)

Refer to PARTS LIST in page 31 for this P.W. board.

PRINTED WIRING BOARD PARTS LIST

[AV28BH7EES / AV28BH7EEB]

MAIN P.W. BOARD ASS'Y (VE-20084594)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R101	VE-30000668	SMD RES.	1/10W 33K J
	R102	VE-30007782	MF RES.	1/4W 3.9M F
	R103	VE-30000855	MF RES.	1/4W 1M F
	R104	VE-30000668	SMD RES.	1/10W 33K J
	R105	VE-30000452	CF RES.	1/4W 10R J
	R106	VE-30000664	SMD RES.	1/10W 3.3K J
	R107	VE-30007019	SMD RES.	1/10W 10K F
	R108	VE-30007784	MO RES.	5W 33K J
⚠	R109	VE-30001270	PTC	9 OHM
	R116	VE-30001171	MO RES.	2W 4.7K J
⚠	R117	VE-30001257	MG RES.	1/2W 4.7M J
⚠	R118	VE-30009036	FUSE RES.	1/2W 0.1R J
⚠	R119	VE-30009036	FUSE RES.	1/2W 0.1R J
	R120	VE-30000814	SMD RES.	1/10W 820R J
	R122	VE-30000469	SMD RES.	1/10W 1K J
	R123	VE-30000469	SMD RES.	1/10W 1K J
	R124	VE-30000480	SMD RES.	1/10W 100K J
	R125	VE-30000927	MF RES.	1/4W 220K J
	R126	VE-30000664	SMD RES.	1/10W 3.3K J
	R127	VE-30000469	SMD RES.	1/10W 1K J
	R128	VE-30000536	CF RES.	1/4W 150K J
	R129	VE-30007019	SMD RES.	1/10W 10K F
	R130	VE-30000721	SMD RES.	1/10W 4.7K J
	R134	VE-30000469	SMD RES.	1/10W 1K J
	R135	VE-30007790	SMD RES.	1/10W 4.3K F
	R136	VE-30000774	SMD RES.	1/10W 680R J
	R137	VE-30007021	SMD RES.	1/10W 1K F
	R138	VE-30007786	SMD RES.	1/10W 2.55K F
	R139	VE-30000774	SMD RES.	1/10W 680R J
	R140	VE-30000459	CF RES.	1/4W 100R J
	R141	VE-30000475	SMD RES.	1/10W 10K J
	R142	VE-30000475	SMD RES.	1/10W 10K J
	R143	VE-30007021	SMD RES.	1/10W 1K F
	R144	VE-30007788	SMD RES.	1/10W 2.7K F
	R145	VE-30000732	SMD RES.	1/10W 470K J
	R146	VE-30000469	SMD RES.	1/10W 1K J
⚠	R148	VE-30014023	FUSE RES.	1/2W 0.1R J
	R149	VE-30007204	MF RES.	1/2W 1.5M F
⚠	R150	VE-30007783	FUSE RES.	1/4W 2.2R J
⚠	R151	VE-30014023	FUSE RES.	1/2W 0.1R J
	R152	VE-30000659	SMD RES.	1/10W 330R J
	R153	VE-30012649	SMD RES.	1/16W 150R J
	R154	VE-30012984	SMD RES.	1/16W 91R J
	R155	VE-30000712	CF RES.	1/4W 470R J
	R156	VE-30001089	MO RES.	2W 1R J
	R157	VE-30000534	SMD RES.	1/10W 15K J
	R158	VE-30000475	SMD RES.	1/10W 10K J
	R159	VE-30000480	SMD RES.	1/10W 100K J
	R160	VE-30006923	SMD RES.	1/10W 4.3K J
	R202	VE-30007779	MO RES.	5W 47R J
	R203	VE-30000534	SMD RES.	1/10W 15K J
	R205	VE-30001004	MF RES.	1/2W 0.56R J
	R206	VE-30001079	MO RES.	1W 100R J
	R210	VE-30000583	CF RES.	1/4W 220R J
	R211	VE-30000721	SMD RES.	1/10W 4.7K J
	R212	VE-30000593	SMD RES.	1/10W 2.2K J
	R213	VE-30000593	SMD RES.	1/10W 2.2K J
	R214	VE-30000593	SMD RES.	1/10W 2.2K J
	R215	VE-30000721	SMD RES.	1/10W 4.7K J
	R216	VE-30000631	SMD RES.	1/10W 2.7K J
	R217	VE-30000593	SMD RES.	1/10W 2.2K J
	R218	VE-30000480	SMD RES.	1/10W 100K J
	R220	VE-30000590	CF RES.	1/4W 2.2K J
	R225	VE-30001086	MO RES.	2W 10K J
	R226	VE-30001168	MO RES.	2W 470RJ
	R227	VE-30000469	SMD RES.	1/10W 1K J
	R228	VE-30000475	SMD RES.	1/10W 10K J
	R229	VE-30000727	SMD RES.	1/10W 47K J
	R230	VE-30000902	MF RES.	1/4W 1.8K F
⚠	R231	VE-30001229	FUSE RES.	1W 2.2R J
	R232	VE-30000477	CF RES.	1/4W 100K J
⚠	R233	VE-30001244	FUSE RES.	0.47R 1/2W J
⚠	R234	VE-30009036	FUSE RES.	1/2W 0.1R J
	R235	VE-30000668	SMD RES.	1/10W 33K J
	R236	VE-30000718	CF RES.	1/4W 4.7K J
⚠	R237	VE-30001244	FUSE RES.	0.47R 1/2W J
	R238	VE-30000729	CF RES.	1/4W 470K J
	R239	VE-30001089	MO RES.	2W 1R J
	R240	VE-30000469	SMD RES.	1/10W 1K J
	R241	VE-30000818	SMD RES.	1/10W 8.2K J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R242	VE-30000784	CF RES.	1/4W 680K J
	R245	VE-30000466	CF RES.	1/4W 1K J
	R246	VE-30000752	CF RES.	1/4W 56K J
	R250	VE-30000477	CF RES.	1/4W 100K J
	R251	VE-30000477	CF RES.	1/4W 100K J
	R252	VE-30007789	SMD RES.	1/10W 27K F
	R254	VE-30000636	SMD RES.	1/10W 27K J
	R255	VE-30001134	MO RES.	2W 2.2R J
	R256	VE-30001100	MO RES.	1W 150R J
	R257	VE-30001173	MO RES.	1W 0.47R J
	R260	VE-30000778	SMD RES.	1/10W 6.8K J
	R261	VE-30000778	SMD RES.	1/10W 6.8K J
⚠	R262	VE-30001237	FUSE RES.	1/2W 3.3R J
	R264	VE-30001077	MO RES.	2W 10R J
	R270	VE-30000541	CF RES.	1/4W 1.5M J
	R271	VE-30000744	CF RES.	1/4W 560R J
	R272	VE-30000475	SMD RES.	1/10W 10K J
	R280	VE-30000480	SMD RES.	1/10W 100K J
	R281	VE-30000480	SMD RES.	1/10W 100K J
	R318	VE-30000469	SMD RES.	1/10W 1K J
	R322	VE-30000594	CF RES.	1/4W 22K J
	R323	VE-30000459	CF RES.	1/4W 100R J
	R324	VE-30000464	SMD RES.	1/10W 100R J
	R327	VE-30000464	SMD RES.	1/10W 100R J
	R360	VE-30000659	SMD RES.	1/10W 330R J
	R361	VE-30000659	SMD RES.	1/10W 330R J
	R362	VE-30000659	SMD RES.	1/10W 330R J
	R363	VE-30000659	SMD RES.	1/10W 330R J
	R364	VE-30000659	SMD RES.	1/10W 330R J
	R365	VE-30000659	SMD RES.	1/10W 330R J
	R366	VE-30000659	SMD RES.	1/10W 330R J
	R367	VE-30000659	SMD RES.	1/10W 330R J
	R368	VE-30000659	SMD RES.	1/10W 330R J
	R369	VE-30000659	SMD RES.	1/10W 330R J
	R370	VE-30000659	SMD RES.	1/10W 330R J
	R371	VE-30000659	SMD RES.	1/10W 330R J
	R372	VE-30000659	SMD RES.	1/10W 330R J
	R373	VE-30000659	SMD RES.	1/10W 330R J
	R374	VE-30000659	SMD RES.	1/10W 330R J
	R375	VE-30000659	SMD RES.	1/10W 330R J
	R376	VE-30000659	SMD RES.	1/10W 330R J
	R378	VE-30000659	SMD RES.	1/10W 330R J
	R379	VE-30000659	SMD RES.	1/10W 330R J
	R380	VE-30000659	SMD RES.	1/10W 330R J
	R381	VE-30000659	SMD RES.	1/10W 330R J
	R382	VE-30000659	SMD RES.	1/10W 330R J
	R383	VE-30000659	SMD RES.	1/10W 330R J
	R384	VE-30000659	SMD RES.	1/10W 330R J
	R385	VE-30000659	SMD RES.	1/10W 330R J
	R397	VE-30000659	SMD RES.	1/10W 330R J
	R398	VE-30000659	SMD RES.	1/10W 330R J
	R411	VE-30000747	SMD RES.	1/10W 560R J
	R412	VE-30000721	SMD RES.	1/10W 4.7K J
	R413	VE-30000475	SMD RES.	1/10W 10K J
	R414	VE-30000469	SMD RES.	1/10W 1K J
	R415	VE-30000517	SMD RES.	1/10W 15R J
	R416	VE-30000717	SMD RES.	1/10W 470R J
	R421	VE-30000563	SMD RES.	1/10W 1.8K J
	R422	VE-30000464	SMD RES.	1/10W 100R J
	R424	VE-30007021	SMD RES.	1/10W 1K F
	R425	VE-30000797	SMD RES.	1/10W 75R J
	R428	VE-30000475	SMD RES.	1/10W 10K J
	R429	VE-30000475	SMD RES.	1/10W 10K J
	R436	VE-30000735	SMD RES.	1/10W 4.7R J
	R440	VE-30000614	SMD RES.	1/10W 2.4K J
	R441	VE-30000475	SMD RES.	1/10W 10K J
	R445	VE-30000814	SMD RES.	1/10W 820R J
	R475	VE-30000524	SMD RES.	1/10W 150R J
	R480	VE-30000718	CF RES.	1/4W 4.7K J
	R490	VE-30000466	CF RES.	1/4W 1K J
	R492	VE-30000503	SMD RES.	1/10W 12K J
	R506	VE-30012695	SMD RES.	1/16W 470R J
	R509	VE-30000797	SMD RES.	1/10W 75R J
	R510	VE-30007021	SMD RES.	1/10W 1K F
	R511	VE-30000464	SMD RES.	1/10W 100R J
	R512	VE-30000464	SMD RES.	1/10W 100R J
	R513	VE-30000457	SMD RES.	1/10W 10R J
	R518	VE-30000735	SMD RES.	1/10W 4.7R J
	R801	VE-30000718	CF RES.	1/4W 4.7K J
	R802	VE-30000718	CF RES.	1/4W 4.7K J

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RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R803	VE-30000628	CF RES.	1/4W 2.7K J
	R804	VE-30000475	SMD RES.	1/10W 10K J
	R805	VE-30000534	SMD RES.	1/10W 15K J
	R806	VE-30000531	CF RES.	1/4W 15K J
	R807	VE-30000567	SMD RES.	1/10W 18K J
	R808	VE-30000734	CF RES.	1/4W 4.7R J
	R809	VE-30000717	SMD RES.	1/10W 470R J
	R810	VE-30000564	CF RES.	1/4W 18K J
	R811	VE-30000717	SMD RES.	1/10W 470R J
	R812	VE-30000734	CF RES.	1/4W 4.7R J
	R813	VE-30000475	SMD RES.	1/10W 10K J
	R819	VE-30000734	CF RES.	1/4W 4.7R J
	R820	VE-30000734	CF RES.	1/4W 4.7R J
	R900	VE-30012641	SMD RES.	1/16W 10K J
	R901	VE-30012641	SMD RES.	1/16W 10K J
	R902	VE-30012641	SMD RES.	1/16W 10K J
	R903	VE-30000718	CF RES.	1/4W 4.7K J
	R904	VE-30000718	CF RES.	1/4W 4.7K J
	R905	VE-30000723	CF RES.	1/4W 47K J
	R906	VE-30012696	SMD RES.	1/16W 47K J
	R907	VE-30012679	SMD RES.	1/16W 3.9K J
	R908	VE-30012679	SMD RES.	1/16W 3.9K J
	R909	VE-30000531	CF RES.	1/4W 15K J
	R910	VE-30000531	CF RES.	1/4W 15K J
	R911	VE-30012641	SMD RES.	1/16W 10K J
	R912	VE-30000471	CF RES.	1/4W 10K J
	R913	VE-30012641	SMD RES.	1/16W 10K J
	R914	VE-30000471	CF RES.	1/4W 10K J
	R915	VE-30000471	CF RES.	1/4W 10K J
	R916	VE-30012695	SMD RES.	1/16W 470R J
	R917	VE-30012987	SMD RES.	1/16W 56R J
	R918	VE-30012692	SMD RES.	1/16W 4.7K J
	R919	VE-30012657	SMD RES.	1/16W 1K J
	R920	VE-30012657	SMD RES.	1/16W 1K J
	R921	VE-30012657	SMD RES.	1/16W 1K J
	R922	VE-30012657	SMD RES.	1/16W 1K J
	R923	VE-30012657	SMD RES.	1/16W 1K J
	R924	VE-30012696	SMD RES.	1/16W 47K J
	R925	VE-30012696	SMD RES.	1/16W 47K J
	R926	VE-30012696	SMD RES.	1/16W 47K J
	R927	VE-30012696	SMD RES.	1/16W 47K J
	R928	VE-30012510	SMD RES.	1/16W 100R J
	R929	VE-30012510	SMD RES.	1/16W 100R J
	R930	VE-30012641	SMD RES.	1/16W 10K J
	R931	VE-30012641	SMD RES.	1/16W 10K J
	R932	VE-30012641	SMD RES.	1/16W 10K J
	R933	VE-30000718	CF RES.	1/4W 4.7K J
	R934	VE-30012692	SMD RES.	1/16W 4.7K J
	R935	VE-30012662	SMD RES.	1/16W 2.7K J
	R936	VE-30000718	CF RES.	1/4W 4.7K J
	R937	VE-30000459	CF RES.	1/4W 100R J
	R938	VE-30012509	SMD RES.	1/16W 100K J
	R939	VE-30012692	SMD RES.	1/16W 4.7K J
	R940	VE-30000500	CF RES.	1/4W 12K J
	R941	VE-30000588	SMD RES.	1/10W 220R J
	R942	VE-30000588	SMD RES.	1/10W 220R J
	R943	VE-30000471	CF RES.	1/4W 10K J
	R944	VE-30012641	SMD RES.	1/16W 10K J
	R945	VE-30000471	CF RES.	1/4W 10K J
	R946	VE-30012657	SMD RES.	1/16W 1K J
	R950	VE-30012657	SMD RES.	1/16W 1K J
	R951	VE-30012657	SMD RES.	1/16W 1K J
	R952	VE-30012657	SMD RES.	1/16W 1K J
	R953	VE-30000466	CF RES.	1/4W 1K J
	R955	VE-30012657	SMD RES.	1/16W 1K J
	R956	VE-30012510	SMD RES.	1/16W 100R J
	R957	VE-30012655	SMD RES.	1/16W 180R J
	R958	VE-30014022	SMD RES.	1/16W 47R J
	R959	VE-30000466	CF RES.	1/4W 1K J
	R960	VE-30000471	CF RES.	1/4W 10K J
	R961	VE-30000718	CF RES.	1/4W 4.7K J
	R964	VE-30012641	SMD RES.	1/16W 10K J
	R965	VE-30012657	SMD RES.	1/16W 1K J
	R966	VE-30012641	SMD RES.	1/16W 10K J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C100	VE-30000098	MKT CAP.	3.3NF 63V J
	C101	VE-30000371	EL CAP.	22UF 50V M
	C102	VE-30000294	SMD CAP.	100NF 50V K
	C103	VE-30000294	SMD CAP.	100NF 50V K
	C104	VE-30012323	MKT CAP.	1NF 100V J
	C105	VE-30000284	SMD CAP.	1NF 50V K R

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C106	VE-30000332	SMD CAP.	4.7NF 50V K
	C107	VE-30000263	SMD CAP.	56PF 50V J CH
	C108	VE-30000123	PP CAP.	33NF 630V K
	C109	VE-30000159	MKP CAP.	4.7NF 1.6KV J
	C110	VE-30009208	C CAP.	470PF 1KV K
	C111	VE-30000131	MKP CAP.	100NF 250V J
⚠	C112	VE-30000094	MKT CAP.	220NF AC275V M
	C114	VE-30000353	EL CAP.	100UF 25V M
⚠	C115	VE-30007858	MKT CAP.	470NF AC275V M
⚠	C118	VE-30007755	MKT CAP.	680NF AC275V M
	C119	VE-30007754	MKP CAP.	1UF 400V
	C120	VE-30007753	MKP CAP.	1NF 1KV
	C121	VE-30013690	EL CAP.	220UF 450V M
⚠	C122	VE-30000447	C CAP.	4.7NF 4KV M E
	C124	VE-30000315	SMD CAP.	220NF 25V Z
	C125	VE-30000315	SMD CAP.	220NF 25V Z
	C130	VE-30007708	C CAP.	1NF 1KV K
	C131	VE-30006909	EL CAP.	100UF M 250V
	C132	VE-30007750	EL CAP.	470UF 35V
	C133	VE-30000409	EL CAP.	470UF 25V M
	C134	VE-30007750	EL CAP.	470UF 35V
	C135	VE-30007748	EL CAP.	1000UF 35V M
	C136	VE-30007748	EL CAP.	1000UF 35V M
	C137	VE-30000284	SMD CAP.	1NF 50V K R
	C138	VE-30000224	SMD CAP.	220PF 50V J
	C139	VE-30000284	SMD CAP.	1NF 50V K R
	C140	VE-30000360	EL CAP.	1000UF 25V M
	C141	VE-30000352	EL CAP.	100UF 16V M
	C142	VE-30000294	SMD CAP.	100NF 50V K
	C143	VE-30000294	SMD CAP.	100NF 50V K
	C144	VE-30000352	EL CAP.	100UF 16V M
	C145	VE-30000309	SMD CAP.	2.2NF 50V K R
	C146	VE-30000359	EL CAP.	1000UF 16V M
	C147	VE-30000359	EL CAP.	1000UF 16V M
	C148	VE-30000294	SMD CAP.	100NF 50V K
	C149	VE-30000294	SMD CAP.	100NF 50V K
	C150	VE-30000352	EL CAP.	100UF 16V M
	C151	VE-30000284	SMD CAP.	1NF 50V K R
	C160	VE-30007081	EL CAP.	4.7UF 50V M
	C161	VE-30007308	C CAP.	220PF 1KV K
	C162	VE-30007308	C CAP.	220PF 1KV K
	C163	VE-30009208	C CAP.	470PF 1KV K
	C165	VE-30016654	SMD CAP.	100NF 16V K R
	C166	VE-30000400	EL CAP.	47UF 50V M
	C167	VE-30009208	C CAP.	470PF 1KV K
	C168	VE-30000294	SMD CAP.	100NF 50V K
	C170	VE-30000352	EL CAP.	100UF 16V M
	C171	VE-30000352	EL CAP.	100UF 16V M
	C172	VE-30016654	SMD CAP.	100NF 16V K R
	C173	VE-30000315	SMD CAP.	220NF 25V Z
	C201	VE-30000360	EL CAP.	1000UF 25V M
	C202	VE-30000106	MKT CAP.	47NF 100V J
	C203	VE-30000099	MKT CAP.	33NF 63V J
	C204	VE-30000345	EL CAP.	10UF 50V M
	C206	VE-30000315	SMD CAP.	220NF 25V Z
	C207	VE-30000362	EL CAP.	1UF 50V M
	C208	VE-30000415	EL CAP.	4.7UF 250V M
	C209	VE-30000224	SMD CAP.	220PF 50V J
	C210	VE-30000149	MKP CAP.	2.7NF 2KV 3.5%
	C211	VE-30000179	MKP CAP.	9.1NF 1600V 3.5%
	C212	VE-30000137	MKP CAP.	15NF 630V J
	C213	VE-30007215	MKP CAP.	1.2UF 250V J
	C214	VE-30000415	EL CAP.	4.7UF 250V M
	C215	VE-30000166	MKP CAP.	560NF 250V J
	C216	VE-30000415	EL CAP.	4.7UF 250V M
	C222	VE-30000431	C CAP.	100PF 1KV M
	C223	VE-30000351	EL CAP.	10UF 350V M
	C225	VE-30000359	EL CAP.	1000UF 16V M
	C226	VE-30000356	EL CAP.	100UF 63V M
	C228	VE-30000360	EL CAP.	1000UF 25V M
	C232	VE-30000225	C CAP.	220PF 50V J SL
	C240	VE-30000400	EL CAP.	47UF 50V M
	C250	VE-30000304	SMD CAP.	1.8NF 50V K R
	C251	VE-30000359	EL CAP.	1000UF 16V M
	C252	VE-30000289	SMD CAP.	10NF 50V K R
	C253	VE-30000294	SMD CAP.	100NF 50V K
	C254	VE-30000360	EL CAP.	1000UF 25V M
	C255	VE-30000294	SMD CAP.	100NF 50V K
	C256	VE-30000092	MKT CAP.	220NF 63V J
	C257	VE-30000304	SMD CAP.	1.8NF 50V K R
	C258	VE-30000322	SMD CAP.	3.3NF 50V K
	C305	VE-30000294	SMD CAP.	100NF 50V K
	C313	VE-30000189	SMD CAP.	100PF 50V J
	C321	VE-30000352	EL CAP.	100UF 16V M

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⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C322	VE-30000352	EL CAP.	100UF 16V M
	C324	VE-30000294	SMD CAP.	100NF 50V K
	C333	VE-30000294	SMD CAP.	100NF 50V K
	C402	VE-30000345	EL CAP.	10UF 50V M
	C403	VE-30000384	EL CAP.	2.2UF 50V M
	C404	VE-30000284	SMD CAP.	1NF 50V K R
	C405	VE-30000284	SMD CAP.	1NF 50V K R
	C406	VE-30000224	SMD CAP.	220PF 50V J
	C407	VE-30000312	SMD CAP.	22NF 50V K
	C408	VE-30000371	EL CAP.	22UF 50V M
	C409	VE-30000294	SMD CAP.	100NF 50V K
	C410	VE-30000294	SMD CAP.	100NF 50V K
	C411	VE-30000109	MKT CAP.	470NF 63V J
	C412	VE-30000384	EL CAP.	2.2UF 50V M
	C413	VE-30000294	SMD CAP.	100NF 50V K
	C414	VE-30000294	SMD CAP.	100NF 50V K
	C417	VE-30000294	SMD CAP.	100NF 50V K
	C418	VE-30000294	SMD CAP.	100NF 50V K
	C419	VE-30000294	SMD CAP.	100NF 50V K
	C427	VE-30000294	SMD CAP.	100NF 50V K
	C428	VE-30000294	SMD CAP.	100NF 50V K
	C440	VE-30000400	EL CAP.	47UF 50V M
	C441	VE-30000220	SMD CAP.	22PF 50V J
	C442	VE-30000294	SMD CAP.	100NF 50V K
	C443	VE-30013411	SMD CAP.	180PF 50V J
	C450	VE-30000345	EL CAP.	10UF 50V M
	C451	VE-30000294	SMD CAP.	100NF 50V K
	C453	VE-30000355	EL CAP.	100UF 50V M
	C454	VE-30000294	SMD CAP.	100NF 50V K
	C455	VE-30000345	EL CAP.	10UF 50V M
	C456	VE-30000352	EL CAP.	100UF 16V M
	C457	VE-30000294	SMD CAP.	100NF 50V K
	C468	VE-30000294	SMD CAP.	100NF 50V K
	C478	VE-30000294	SMD CAP.	100NF 50V K
	C492	VE-30000294	SMD CAP.	100NF 50V K
	C497	VE-30000294	SMD CAP.	100NF 50V K
	C498	VE-30000294	SMD CAP.	100NF 50V K
	C499	VE-30000362	EL CAP.	1UF 50V M
	C500	VE-30000352	EL CAP.	100UF 16V M
	C505	VE-30000294	SMD CAP.	100NF 50V K
	C506	VE-30000345	EL CAP.	10UF 50V M
	C509	VE-30000186	SMD CAP.	10PF 50V D
	C510	VE-30000186	SMD CAP.	10PF 50V D
	C511	VE-30000341	SMD CAP.	68NF 50V K
	C610	VE-30000074	MKT CAP.	100NF 63V J
	C801	VE-30000362	EL CAP.	1UF 50V M
	C802	VE-30000362	EL CAP.	1UF 50V M
	C803	VE-30000362	EL CAP.	1UF 50V M
	C804	VE-30000409	EL CAP.	470UF 25V M
	C805	VE-30000294	SMD CAP.	100NF 50V K
	C806	VE-30000409	EL CAP.	470UF 25V M
	C807	VE-30000294	SMD CAP.	100NF 50V K
	C808	VE-30000074	MKT CAP.	100NF 63V J
	C809	VE-30000074	MKT CAP.	100NF 63V J
	C819	VE-30000309	SMD CAP.	2.2NF 50V K R
	C820	VE-30000309	SMD CAP.	2.2NF 50V K R
	C821	VE-30000309	SMD CAP.	2.2NF 50V K R
	C822	VE-30000309	SMD CAP.	2.2NF 50V K R
	C900	VE-30000371	EL CAP.	22UF 50V M
	C901	VE-30016654	SMD CAP.	100NF 16V K R
	C902	VE-30016654	SMD CAP.	100NF 16V K R
	C903	VE-30016654	SMD CAP.	100NF 16V K R
	C904	VE-30000074	MKT CAP.	100NF 63V J
	C905	VE-30000371	EL CAP.	22UF 50V M
	C906	VE-30016654	SMD CAP.	100NF 16V K R
	C907	VE-30000074	MKT CAP.	100NF 63V J
	C908	VE-30016654	SMD CAP.	100NF 16V K R
	C909	VE-30016654	SMD CAP.	100NF 16V K R
	C910	VE-30016654	SMD CAP.	100NF 16V K R
	C911	VE-30000352	EL CAP.	100UF 16V M
	C912	VE-30012569	SMD CAP.	33PF 50V J
	C913	VE-30012569	SMD CAP.	33PF 50V J
	C914	VE-30000371	EL CAP.	22UF 50V M
	C915	VE-30016654	SMD CAP.	100NF 16V K R
	C916	VE-30016654	SMD CAP.	100NF 16V K R
	C917	VE-30016654	SMD CAP.	100NF 16V K R
	C918	VE-30016654	SMD CAP.	100NF 16V K R
	C919	VE-30000375	EL CAP.	220UF 16V M
	C920	VE-30000384	EL CAP.	2.2UF 50V M
	C921	VE-30016654	SMD CAP.	100NF 16V K R
	C926	VE-30016654	SMD CAP.	100NF 16V K R
	C927	VE-30016654	SMD CAP.	100NF 16V K R
	C930	VE-30000345	EL CAP.	10UF 50V M
	C931	VE-30000257	C CAP.	470PF 50V J SL

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C932	VE-30016654	SMD CAP.	100NF 16V K R
	C933	VE-30000294	SMD CAP.	100NF 50V K
	TRANSF			
⚠	TR101	VE-30016819	SMPS TRF	
	TR201	VE-30006743	TRF. HORIZONTAL DRIVER	
⚠	TR202	VE-30016922	FBT TRF	
	COIL			
	L101	VE-30006712	FERRITE BEAD	
	L102	VE-30007775	PFC COIL	1MH 1KHZ 2A
⚠	L103	VE-30006744	LINE FILTER	16MH
⚠	L104	VE-30006744	LINE FILTER	16MH
	L106	VE-30006712	FERRITE BEAD	
	L107	VE-30001960	FERIT BAR	
	L108	VE-30001960	FERIT BAR	
	L109	VE-30001960	FERIT BAR	
	L201	VE-30007771	FIXED COIL	100UH
	L202	VE-30007757	COIL INJECTION EW	6MH
	L203	VE-30007770	FILTER COIL	1MH
	L204	VE-30012271	LINEARTY COIL	4.3UH VOGT
	L205	VE-30007756	BRIDGE COIL	150UH 32KHZ
	L206	VE-30006712	FERRITE BEAD	
	L207	VE-30006712	FERRITE BEAD	
	L304	VE-30001992	FIXED COIL	10UH Q65 K-A
	L401	VE-30001986	FIXED COIL	3.3UH Q65 K
	L403	VE-30001979	FIXED COIL	1UH Q45 M-A
	L405	VE-30001987	FIXED COIL	4.7UH Q70 K-A
	L420	VE-30001996	FIXED COIL	22UH Q40 K
	L421	VE-30001992	FIXED COIL	10UH Q65 K-A
	L422	VE-30001994	FIXED COIL	22UH J AXIAL
	L423	VE-30001994	FIXED COIL	22UH J AXIAL
	L425	VE-30001971	FERRITE BEAT	
	L801	VE-30002170	COIL FTZ/RAD	
	L802	VE-30002170	COIL FTZ/RAD	
	L900	VE-30001992	FIXED COIL	10UH Q65 K-A
	L901	VE-30001992	FIXED COIL	10UH Q65 K-A
	L902	VE-30001992	FIXED COIL	10UH Q65 K-A
	L903	VE-30001992	FIXED COIL	10UH Q65 K-A
	L904	VE-30001987	FIXED COIL	4.7UH Q70 K-A
	L905	VE-30001984	FIXED COIL	2.2UH Q55 M-AX
	L906	VE-30002171	CHOKE PEAKING COIL	22UH K
	DIODE			
	D101	VE-30001285	DIODE	
	D102	VE-30001291	DIODE	
	D103	VE-30007768	DIODE	
	D104	VE-30007768	DIODE	
	D105	VE-30007768	DIODE	
	D106	VE-30007758	BRIDGE DIODE	
	D108	VE-30001318	DIODE	
	D109	VE-30009699	ZENER DIODE	
	D110	VE-20063054	DIODE	
	D111	VE-30001299	DIODE	
	D112	VE-30001302	DIODE	
	D113	VE-30001302	DIODE	
	D114	VE-30001302	DIODE	
	D115	VE-30001285	DIODE	
	D116	VE-30007760	ZENER DIODE	
	D117	VE-30001285	DIODE	
	D118	VE-30007760	ZENER DIODE	
	D119	VE-30001284	DIODE	
	D120	VE-30001291	DIODE	
	D121	VE-30001318	DIODE	
	D122	VE-30001318	DIODE	
	D123	VE-30001285	DIODE	
	D126	VE-30001284	DIODE	
	D127	VE-30001284	DIODE	
	D128	VE-30001284	DIODE	
	D201	VE-30001291	DIODE	
	D202	VE-30001285	DIODE	
	D203	VE-30007760	ZENER DIODE	
	D205	VE-30007763	ZENER DIODE	
	D206	VE-30007678	DIODE GUC	
	D207	VE-30007768	DIODE	
	D208	VE-30001291	DIODE	
	D209	VE-30001291	DIODE	
	D210	VE-30001299	DIODE	

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DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D211	VE-30001299	DIODE	
	D212	VE-30001291	DIODE	
	D213	VE-30001291	DIODE	
	D214	VE-30007763	ZENER DIODE	
	D215	VE-30007762	ZENER DIODE	
	D216	VE-30001285	DIODE	
	D218	VE-30001291	DIODE	
	D219	VE-30001291	DIODE	
	D220	VE-30001284	DIODE	
	D221	VE-30001284	DIODE	
	D222	VE-30001284	DIODE	
	D223	VE-30001285	DIODE	
	D224	VE-30001285	DIODE	
	D225	VE-30001318	DIODE	
	D403	VE-30001285	DIODE	
	D900	VE-30012412	ZENER DIODE	
	D901	VE-30007761	ZENER DIODE	

TRANSISTOR

	Q101	VE-30007801	TR	
	Q103	VE-30007802	TR	
	Q104	VE-30007798	TR	
	Q105	VE-30007798	TR	
	Q106	VE-30007802	TR	
	Q107	VE-30007798	TR	
	Q108	VE-30007798	TR	
	Q109	VE-30001457	TR	
	Q110	VE-30001457	TR	
	Q112	VE-30001454	TR	
	Q113	VE-30001428	TR	
	Q201	VE-30007802	TR	
	Q202	VE-30016686	TR	
	Q203	VE-30001458	TR	
	Q204	VE-30001458	TR	
	Q205	VE-30007799	TR	
	Q206	VE-30001457	TR	
	Q207	VE-30001457	TR	
	Q208	VE-30001455	TR	
	Q403	VE-30001457	TR	
	Q408	VE-30007800	TR	
	Q415	VE-30001457	TR	
	Q801	VE-30001457	TR	
	Q802	VE-30001457	TR	
	Q900	VE-30001458	TR	
	Q901	VE-30001457	TR	
	Q902	VE-30001457	TR	
	Q903	VE-30001457	TR	
	Q904	VE-30001457	TR	
	Q905	VE-30001457	TR	
	Q906	VE-30001457	TR	
	Q907	VE-30001457	TR	
	Q908	VE-30001457	TR	
	Q909	VE-30001458	TR	
	Q910	VE-30001457	TR	
	Q911	VE-30001457	TR	

IC

	IC101	VE-30007442	IC	
⚠	IC102	VE-30015087	IC	
	IC103	VE-30001506	IC	
	IC104	VE-30007444	IC	
	IC105	VE-30001500	IC	
	IC106	VE-30001668	IC	
	IC201	VE-30007793	IC	
	IC202	VE-30001506	IC	
	IC302	VE-30015382	IC(MEMORY)	
	IC304	VE-30016491	IC	
	IC401	VE-30001495	IC	
	IC801	VE-30007794	IC	
	IC802	VE-30007794	IC	
	IC900	VE-30013571	IC(MYCOM)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
⚠	F101	VE-20000849	FUSE ASSY	3.15A
⚠	F102	VE-30009037	FUSE	6.3A
⚠	F103	VE-30009037	FUSE	6.3A
	RL2	VE-30002183	RELAY	
	S133	VE-30000575	SMD RES.	1/10W 2K J
	T401	VE-30001724	SER FILTER	
	T402	VE-30001726	SER FILTER	
	TU401	VE-30009637	TUNER	
	VL401	VE-30002037	ADJ COIL VIF	
	VR127	VE-30001041	ADJ RES.	0.15W 1K M VER
	X900	VE-30006662	XTAL	
	Z401	VE-30001706	SAW FILTER	
	Z403	VE-30001692	SAW FILTER	

MULTISOUND P.W. BOARD ASS'Y (VE-30017302)

Refer to PARTS LIST in page 27 for this P.W. board.

FEATURE BOX P.W. BOARD ASS'Y (VE-30013755)

Refer to PARTS LIST in page 29 for this P.W. board.

CRT SOCKET P.W. BOARD ASS'Y (VE-30017303)

Refer to PARTS LIST in page 30 for this P.W. board.

FRONT CONTROL P.W. BOARD ASS'Y (VE-30017014)

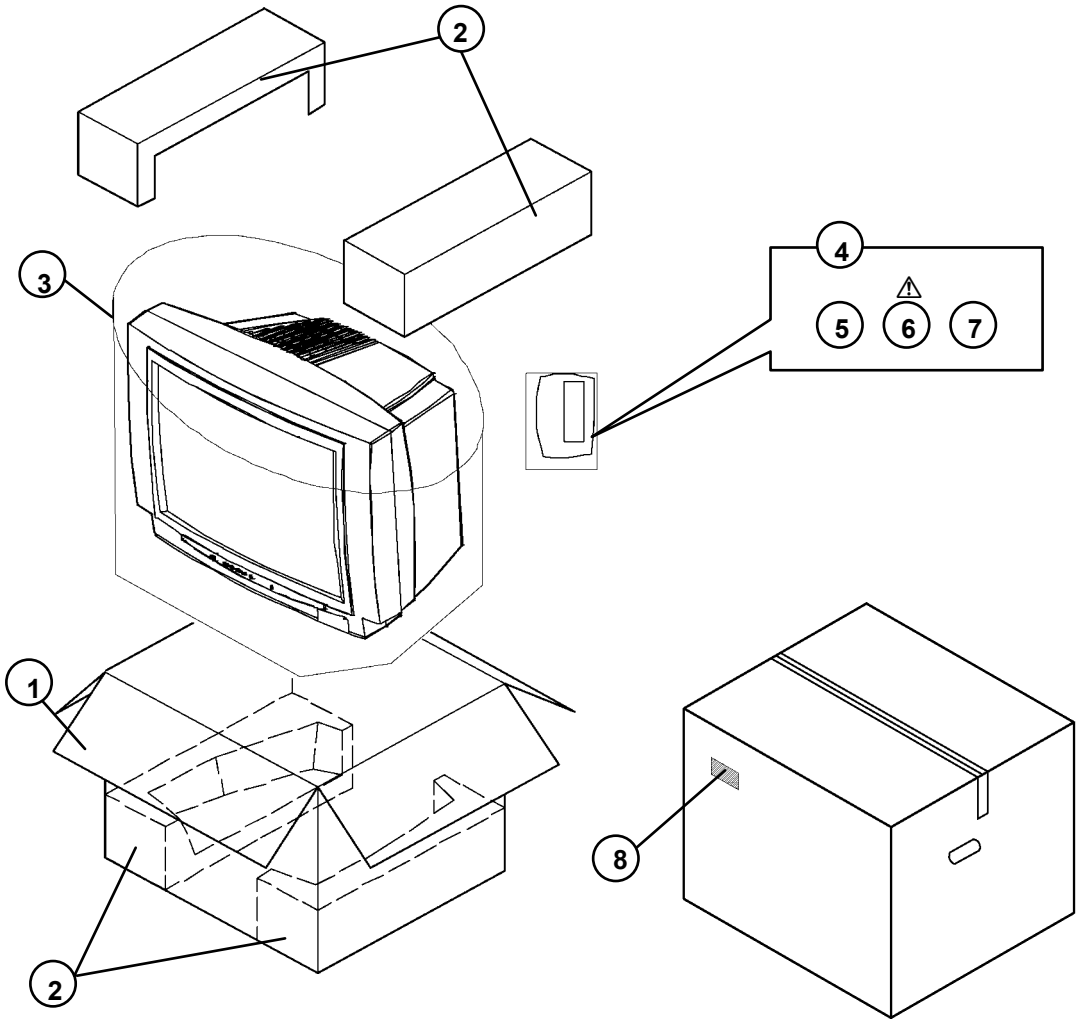
Refer to PARTS LIST in page 31 for this P.W. board.

FRONT AV + HEADPHONE JACK P.W. BOARD ASS'Y (VE-30016761)

Refer to PARTS LIST in page 31 for this P.W. board.

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description
	1	VE-50023336	F CARTON BOX	(AV28BH7ENS)
	1	VE-50023328	F CARTON BOX	(AV28BH7ENB)
	1	VE-50023340	F CARTON BOX	(AV28BH7EES)
	1	VE-50023334	F CARTON BOX	(AV28BH7EEB)
	1	VE-50023338	F CARTON BOX	(AV28BH7EPS)
	1	VE-50023331	F CARTON BOX	(AV28BH7EPB)
	2	VE-20069214 / 15	CUSHION ASS'Y	
	3	VE-50020732	POLY BAG (1400*1000)	
	4	VE-70000587	POLY BAG	
	5	VE-30015781	REMOTE CONTROL UNIT	(RM-C85)
⚠	6	VE-50023325	INST BOOK	(AV28BH7ENS/ENB)
⚠	6	VE-50023332	INST BOOK	(AV28BH7EES/EEB)
⚠	6	VE-50023329	INST BOOK	(AV28BH7EPS/EPB)
	7	BT-54013-2TK	WARRANTY CARD	
	8	VE-20086449	LABEL	(AV28BH7ENS)
	8	VE-20086440	LABEL	(AV28BH7ENB)
	8	VE-20086455	LABEL	(AV28BH7EES)
	8	VE-20086446	LABEL	(AV28BH7EEB)
	8	VE-20086452	LABEL	(AV28BH7EPS)
	8	VE-20086443	LABEL	(AV28BH7EPB)

VICTOR COMPANY OF JAPAN, LIMITED
HOME AV NETWORK BUSINESS UNIT 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama, Kanagawa-prefecture, 221-8528, Japan

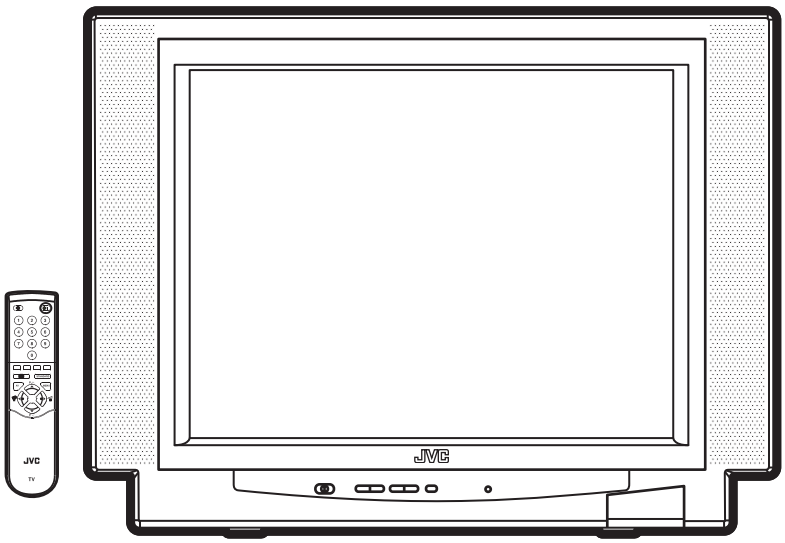
JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

CD-ROM No.SML200204



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No.51967
Apr. 2002

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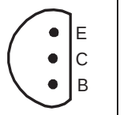
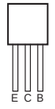
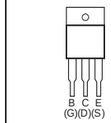
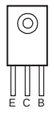
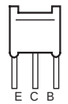
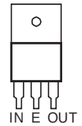
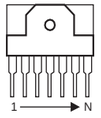
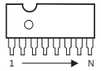
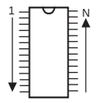
SEMICONDUCTOR SHAPES

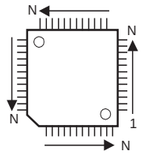
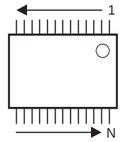
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ/V
(4)Oscilloscope sweeping time	:H ⇒ 20μS/div :V ⇒ 5mS/div :Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	:[Ω]
K	:[K Ω]
M	:[M Ω]

● Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	:[pF]
less than 1	:[μF]

● Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

∗ Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

● Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[μH]
Others	:As specified

4.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE side GND and the ISOLATED(NEUTRAL) side GND.Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

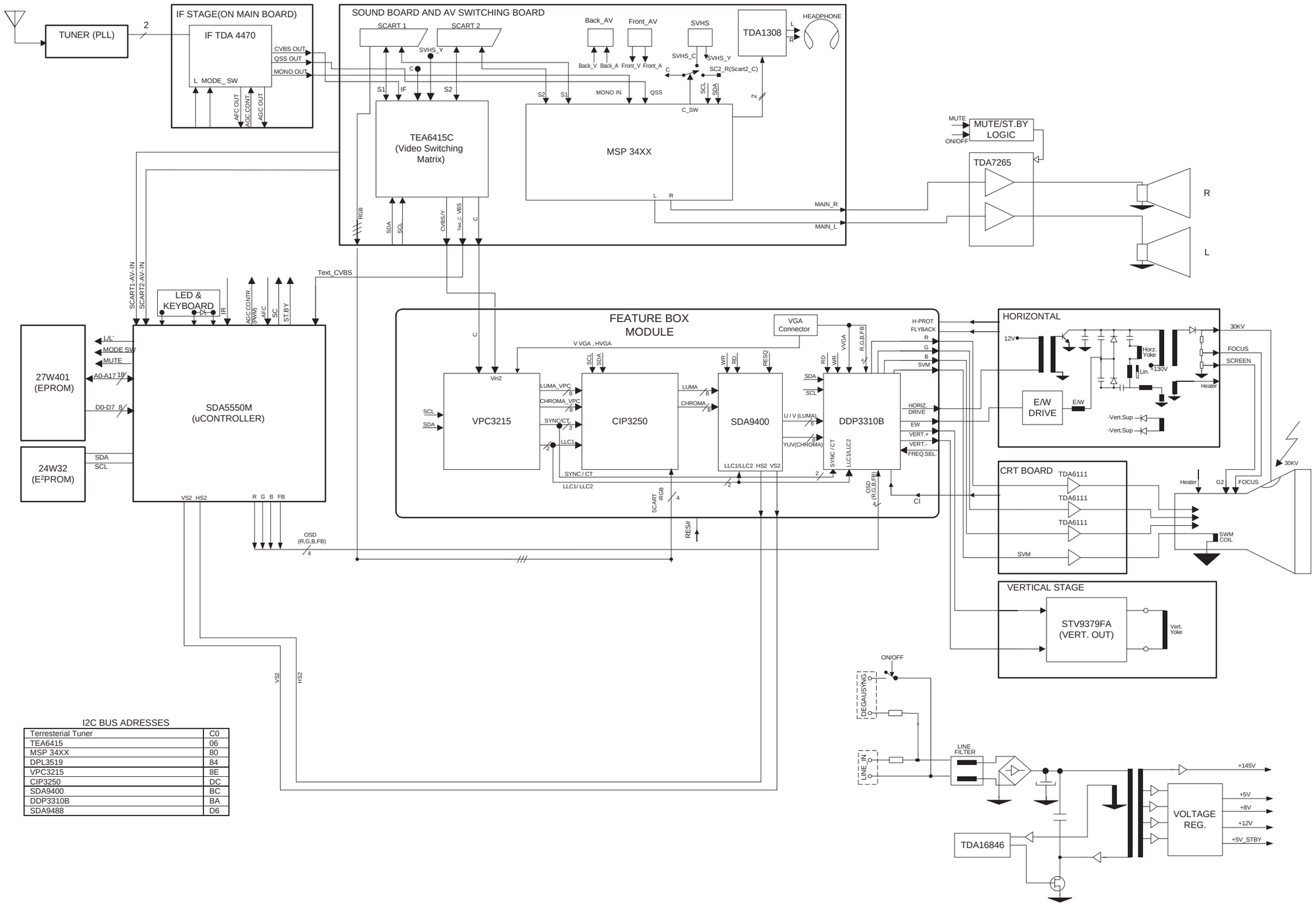
◇ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◇ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

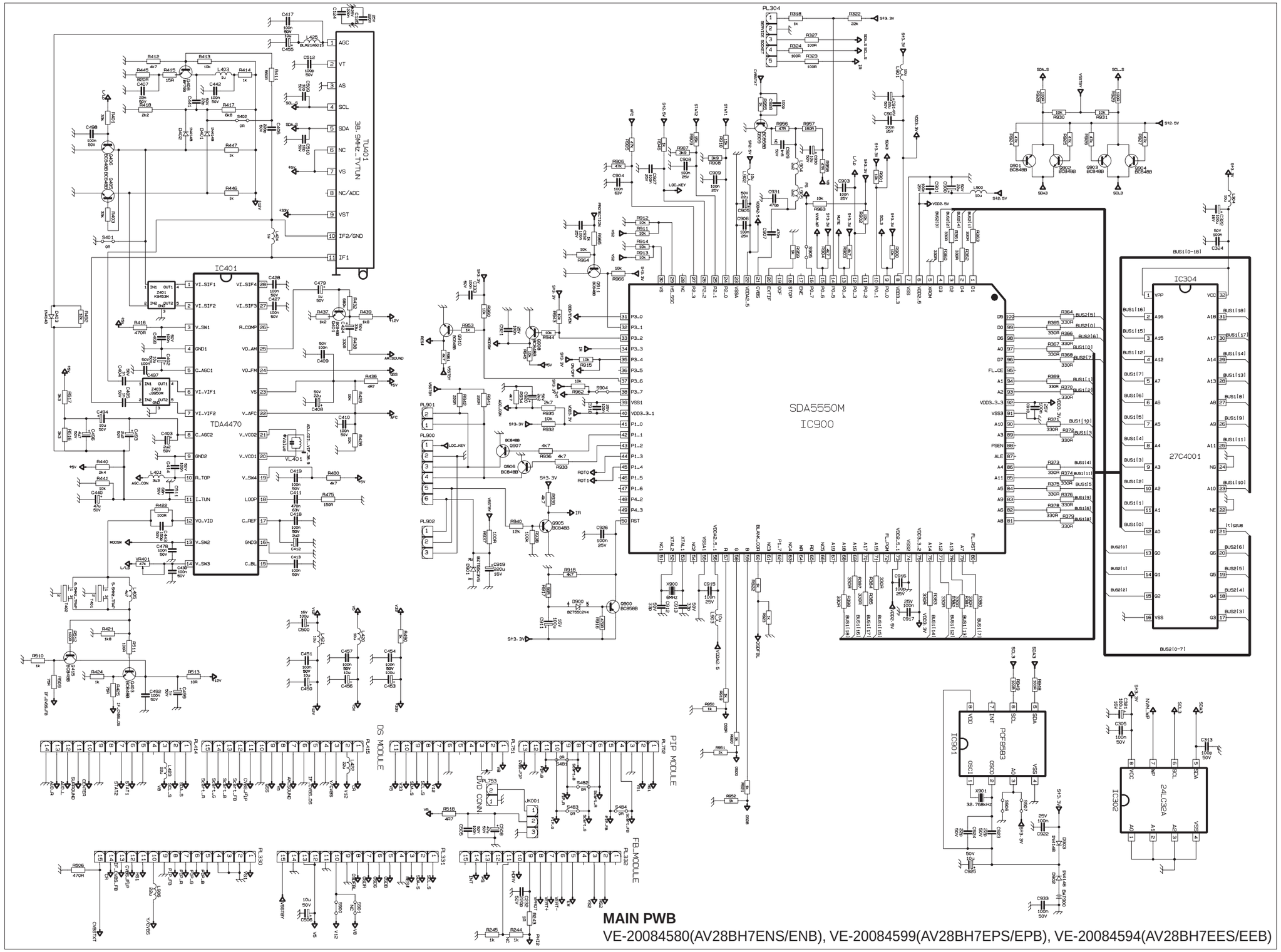
BLOCK DIAGRAM



I2C BUS ADRESSES

Terresterial Tuner	C0
TEA6415	06
MSP 34XX	80
DPL3519	84
VPC3215	8E
CIP3250	DC
SDA9400	BC
DDP3310B	BA
SDA9488	D6

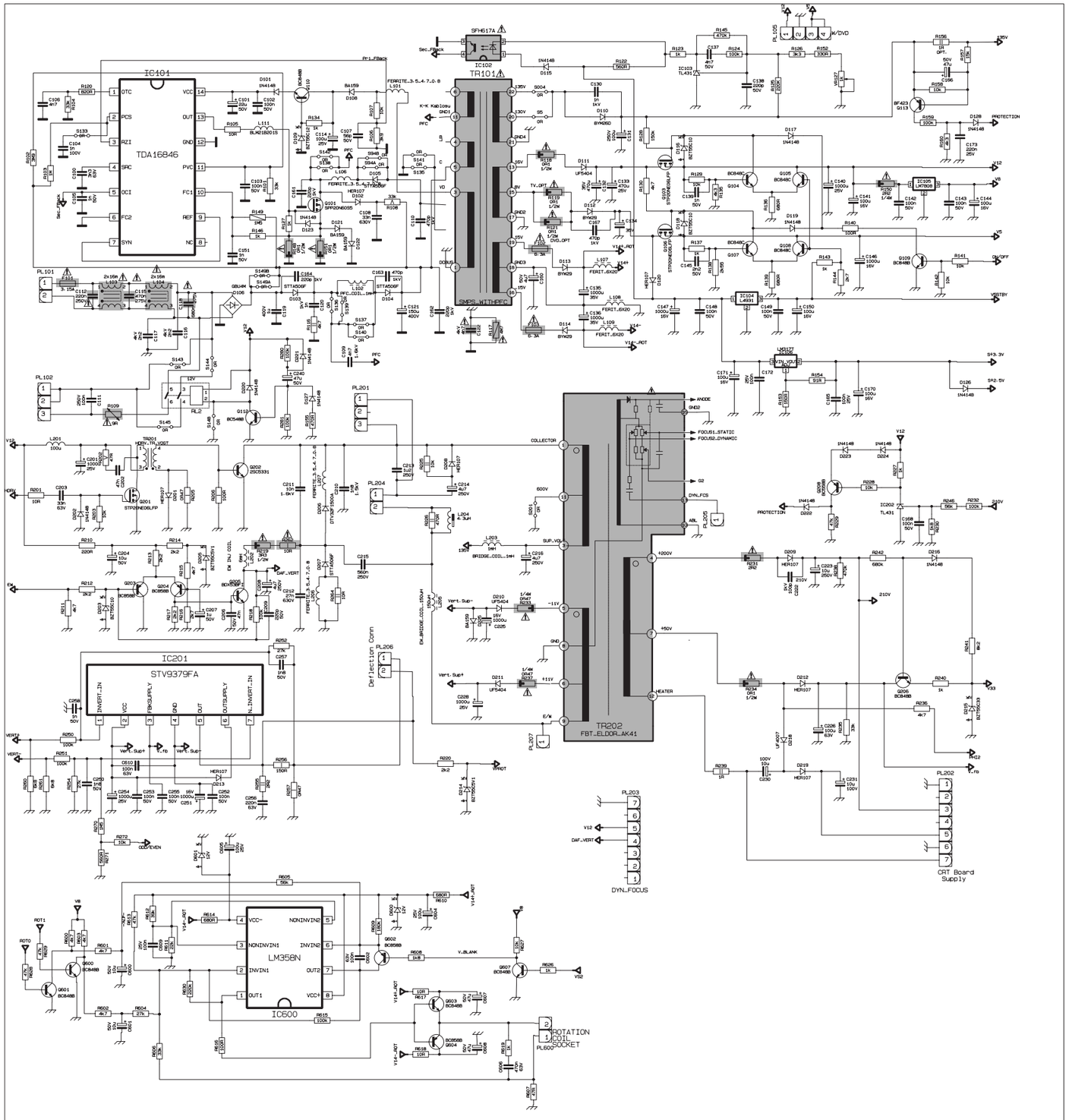
CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM (1/3)*



MAIN PWB
VE-20084580(AV28BH7ENS/ENB), VE-20084599(AV28BH7EPS/EPB), VE-20084594(AV28BH7EES/EEB)

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

MAIN PWB CIRCUIT DIAGRAM (2/3)

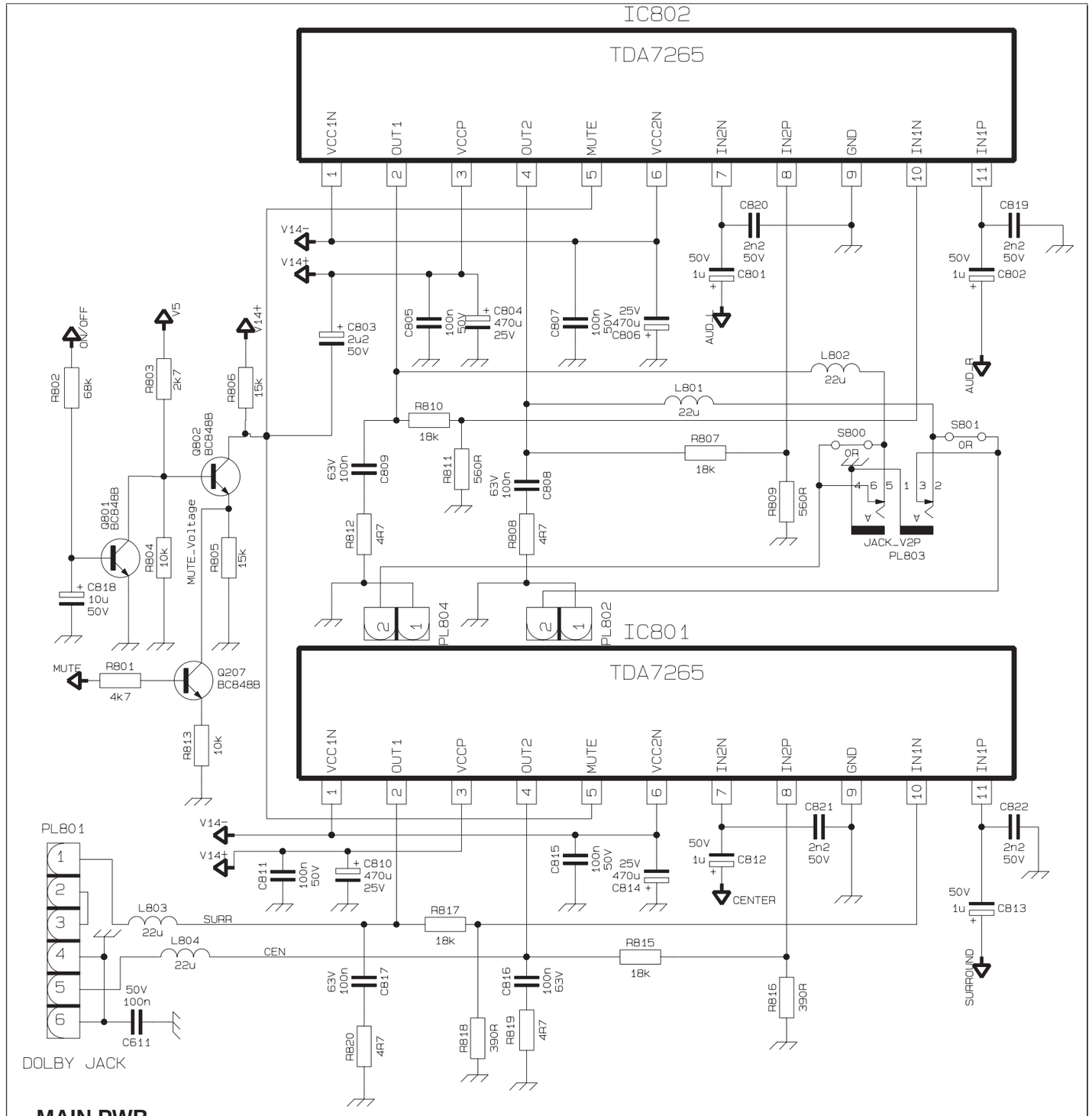


MAIN PWB VE-20084580(AV28BH7ENS/ENB), VE-20084599(AV28BH7EPS/EPB), VE-20084594(AV28BH7EES/EEB)

	EE VERSIONS		EN VERSIONS		EP VERSIONS	
POSITION	VESTEL CODE	DESCRIPTION	VESTEL CODE	DESCRIPTION	VESTEL CODE	DESCRIPTION
C424	-	-	-	-	VE-30000387	CAP EL 33UF 50V M
C455	VE-30000345	CAP EL 10UF 50V M	VE-30000345	CAP EL 10UF 50V M	-	-
C430	-	-	-	-	VE-30000294	-
C479	-	-	-	-	VE-30000362	-
C493	-	-	-	-	VE-30000384	-
C494	-	-	-	-	VE-30000345	-
C496	-	-	-	-	VE-30000413	-
D401	VE-30001735	JUMPER SMD 1206	VE-30001735	JUMPER SMD 1206	VE-30001285	JUMPER SMD 1206
D402	-	-	-	-	VE-30001285	-
IC401	VE-30001495	IC TDA4472	VE-30001495	IC TDA4472	VE-30001494	IC TDA4472
Q401	-	-	-	-	VE-30001457	-
Q405	-	-	-	-	VE-30001457	-
Q406	-	-	-	-	VE-30001457	-
R401	-	-	-	-	VE-30000665	-
R403	-	-	-	-	VE-30000668	-
R417	-	-	-	-	VE-30000778	-
R418	-	-	-	-	VE-30000593	-
R432	-	-	-	-	VE-30000787	-
R437	-	-	-	-	VE-30000499	-
R438	-	-	-	-	VE-30000655	-
R439	-	-	-	-	VE-30000563	-
R446	-	-	-	-	VE-30000469	-
R447	-	-	-	-	VE-30000469	-
R516	-	-	-	-	VE-30000664	-
R517	-	-	-	-	VE-30000664	-
S401	VE-30001734	JUMPER SMD (0805)	VE-30001734	JUMPER SMD (0805)	-	-
T402	VE-30001726	FILTER SER TRAP TPS 6.5MHZ	-	-	VE-30001726	FILTER SER TRAP TPS 6.5MHZ
VL401	VE-30002037	ADJ COIL VIF 38.9 Q80	VE-30002037	ADJ COIL VIF 38.9 Q80	VE-30002036	ADJ COIL VIF 38.9MHZ C=12PF
VR401	-	-	-	-	VE-30001069	RES ADJ 0.15W 47K VER (MAN)

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

MAIN PWB CIRCUIT DIAGRAM (3/3)

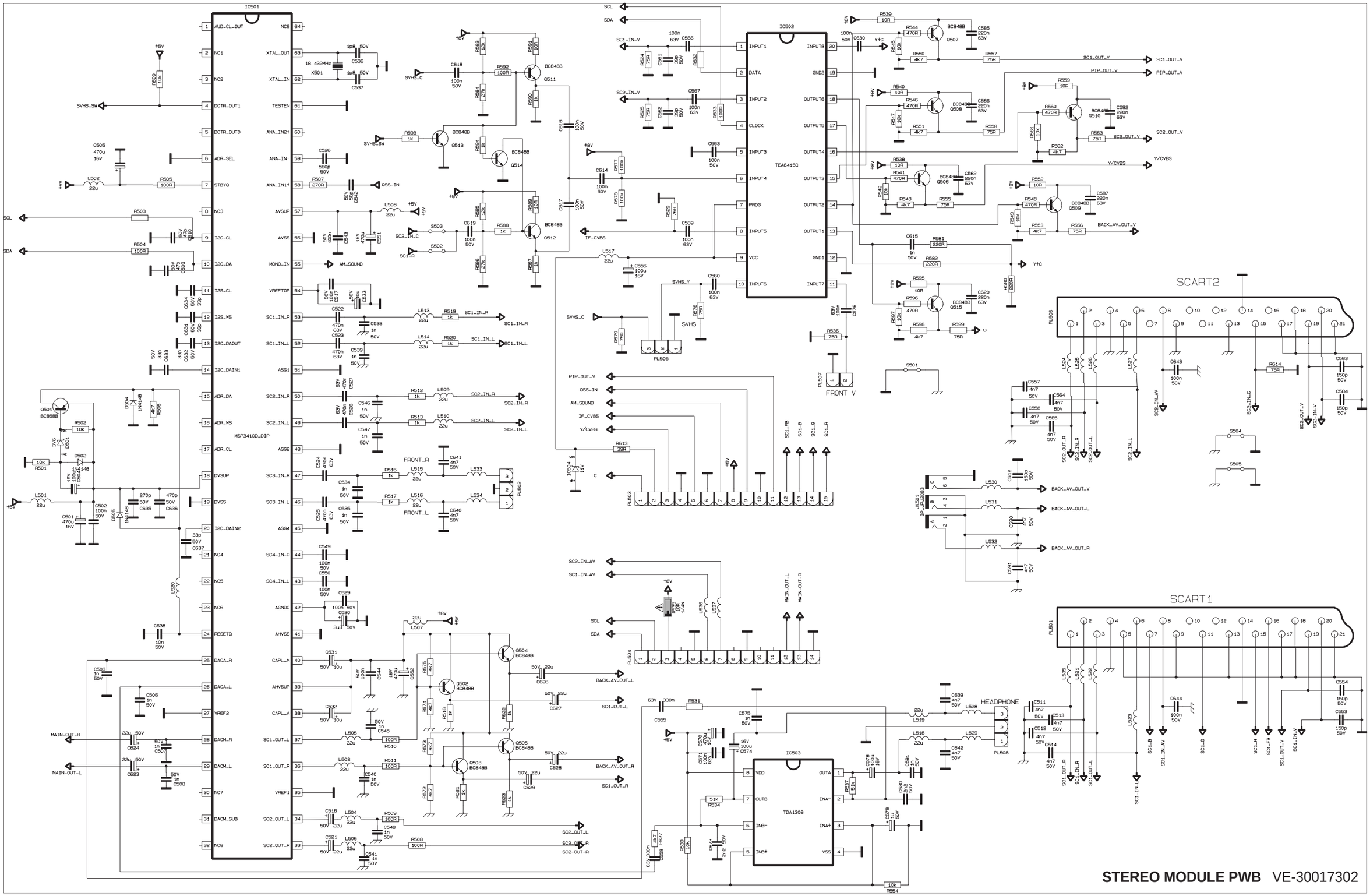


MAIN PWB

VE-20084580(AV28BH7ENS/ENB), VE-20084599(AV28BH7EPS/EPB), VE-20084594(AV28BH7EES/EEB)

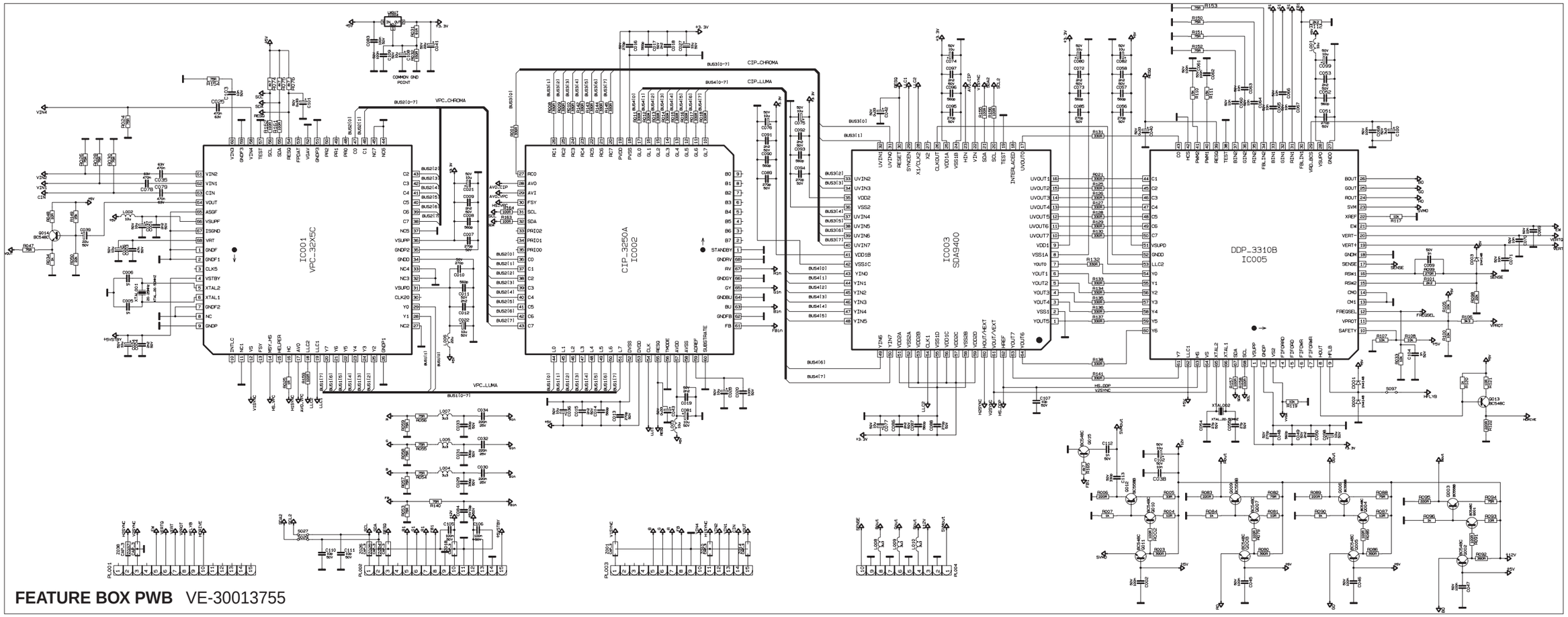
AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

MULTI SOUND PWB CIRCUIT DIAGRAM



AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

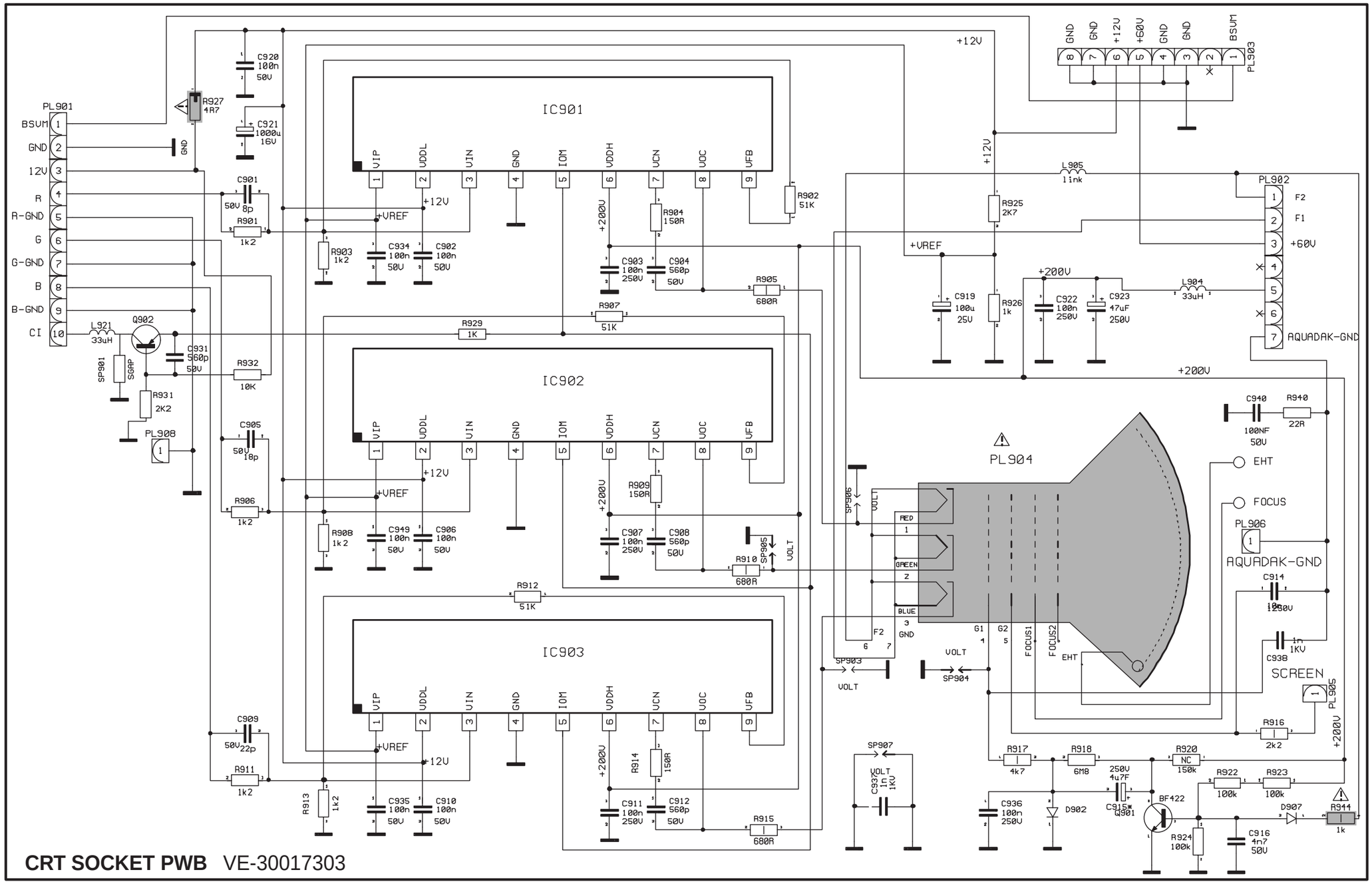
FEATURE BOX PWB CIRCUIT DIAGRAM



FEATURE BOX PWB VE-30013755

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

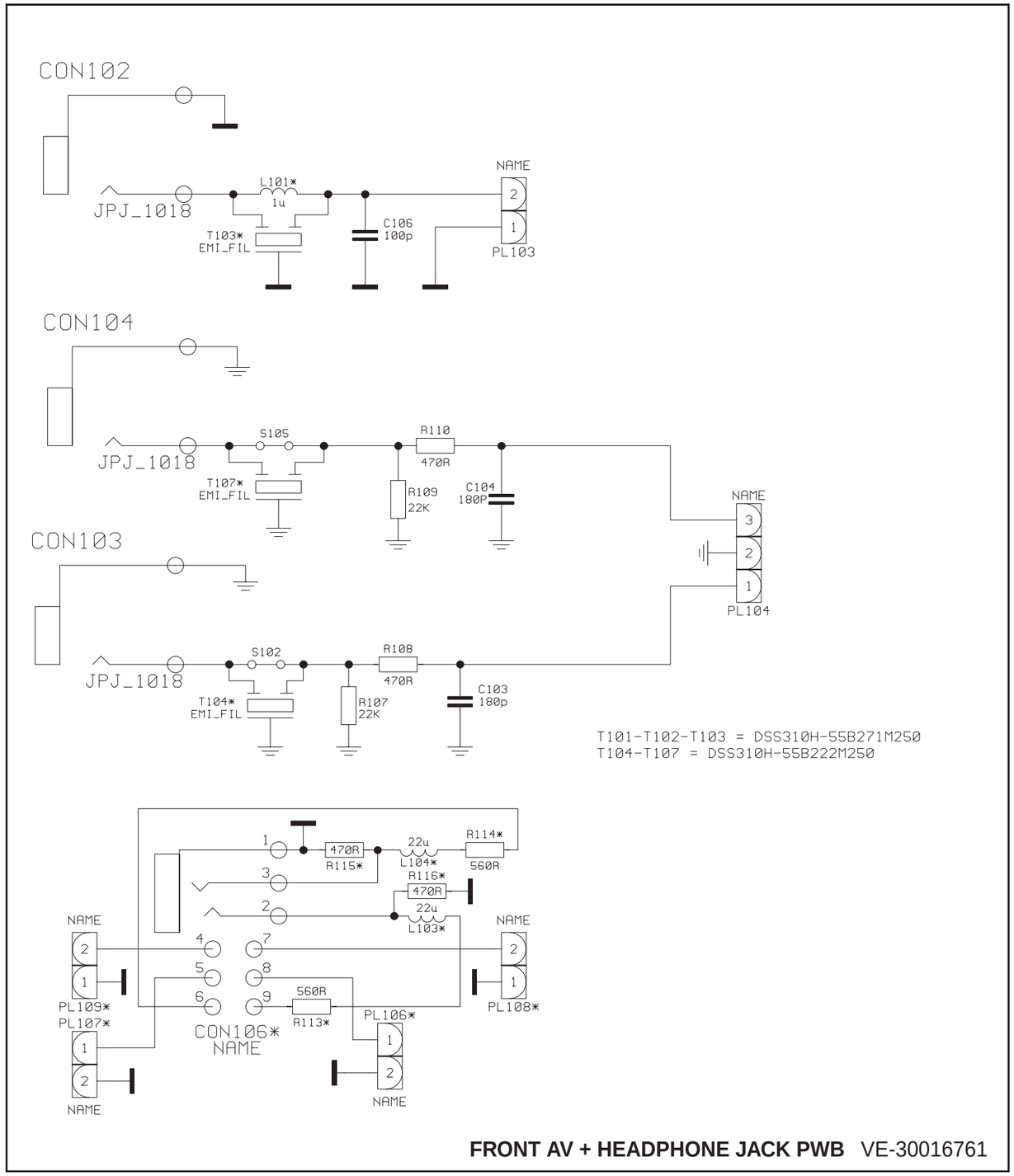
CRT SOCKET PWB CIRCUIT DIAGRAM



CRT SOCKET PWB VE-30017303

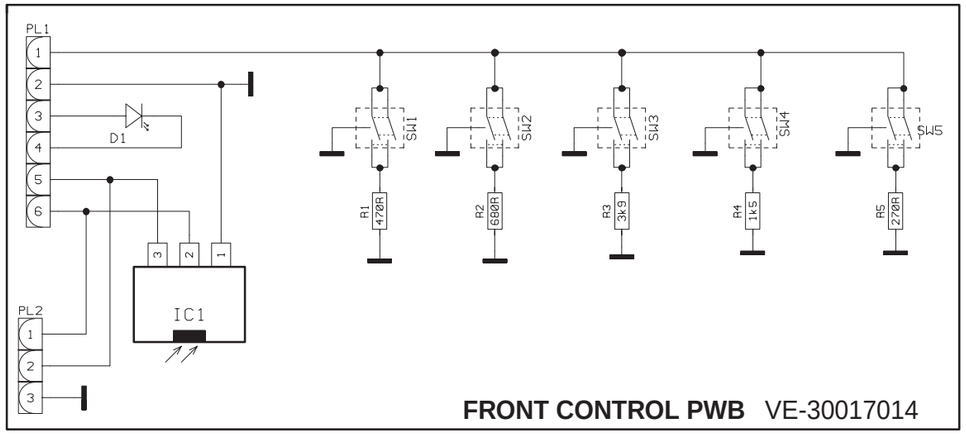
AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

FRONT AV + HEADPHONE JACK PWB CIRCUIT DIAGRAM



FRONT AV + HEADPHONE JACK PWB VE-30016761

FRONT CONTROL PWB CIRCUIT DIAGRAM

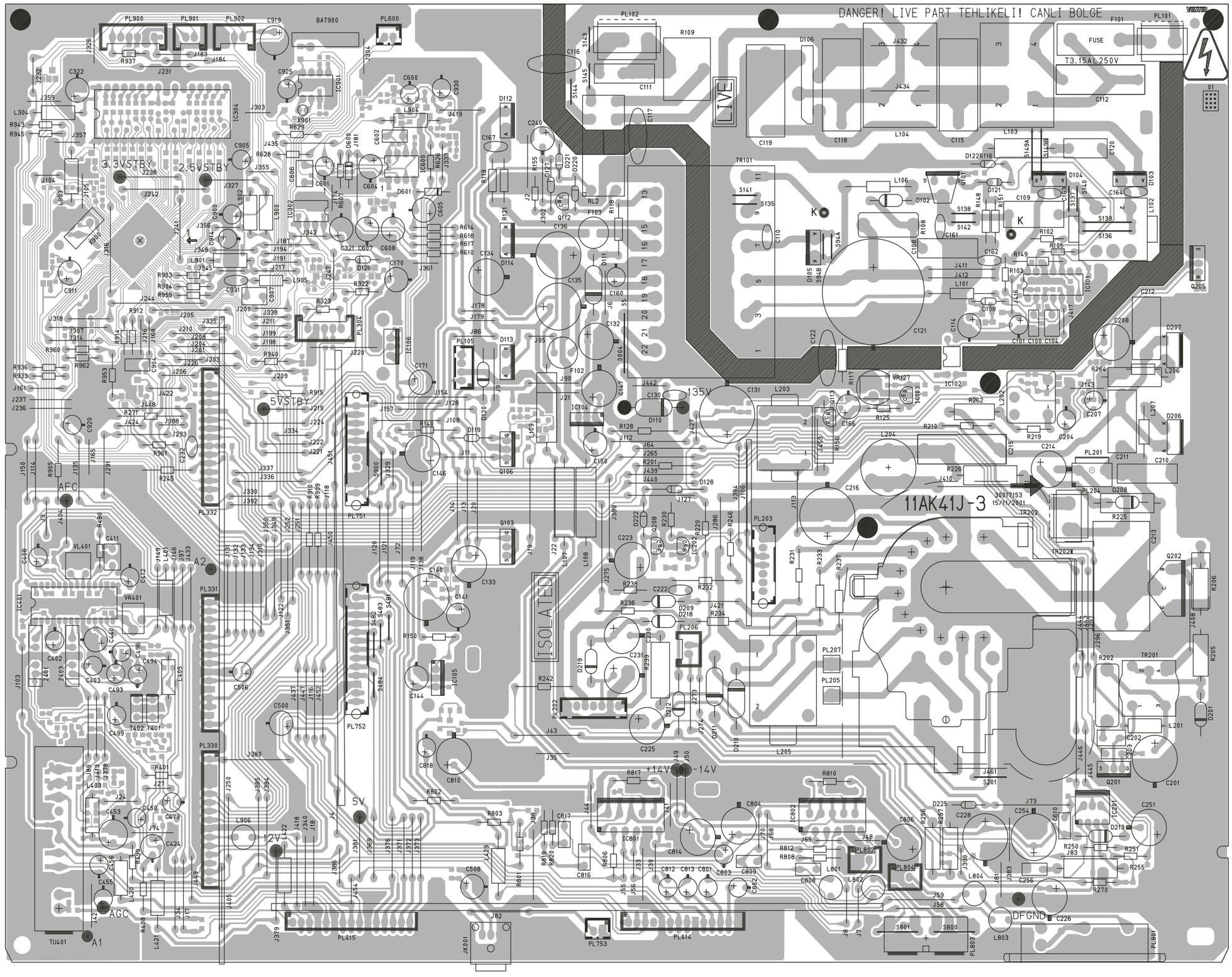


FRONT CONTROL PWB VE-30017014

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

PATTERN DIAGRAMS *MAIN PWB PATTERN*

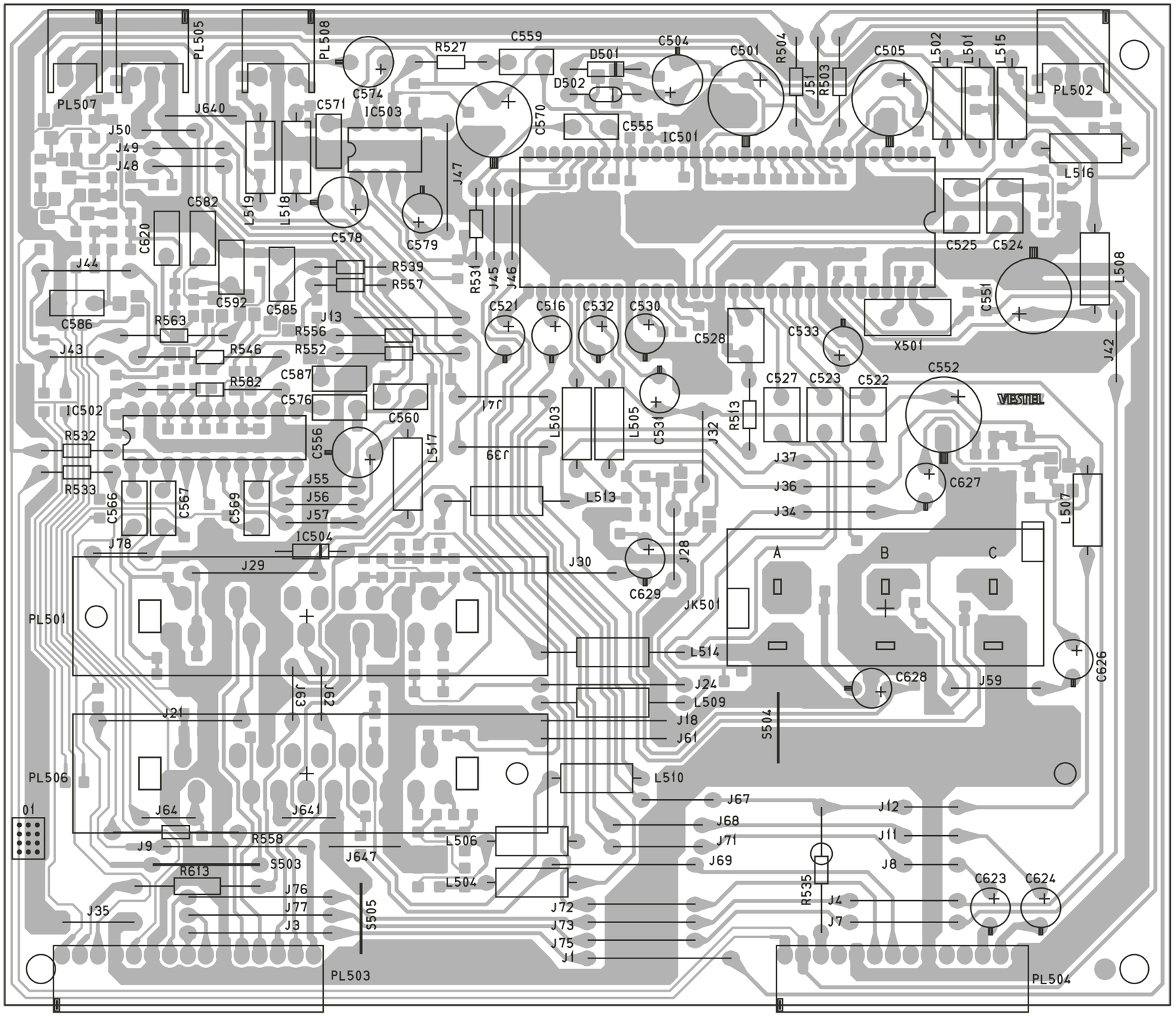
FRONT



AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

MULTI SOUND PWB PATTERN

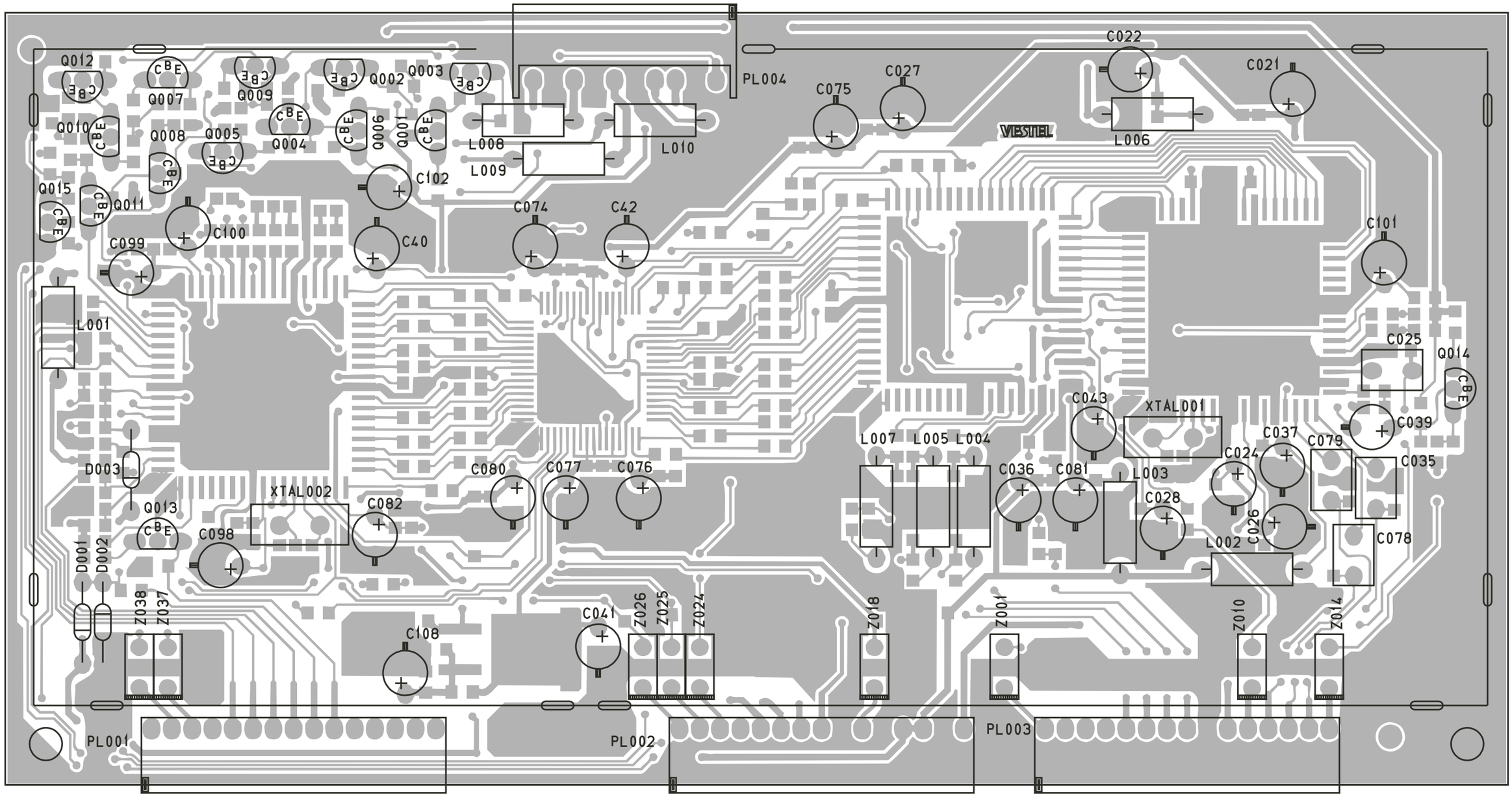
TOP



AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

FEATURE BOX PWB PATTERN

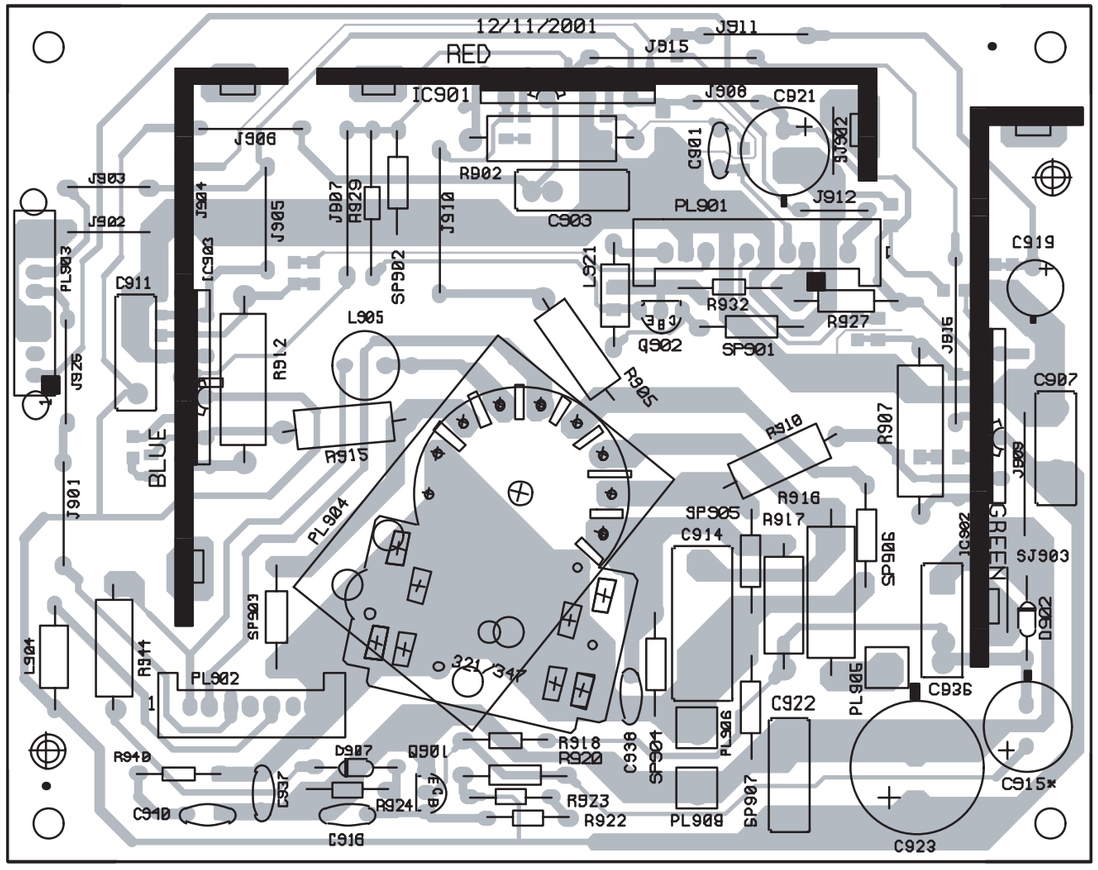
TOP



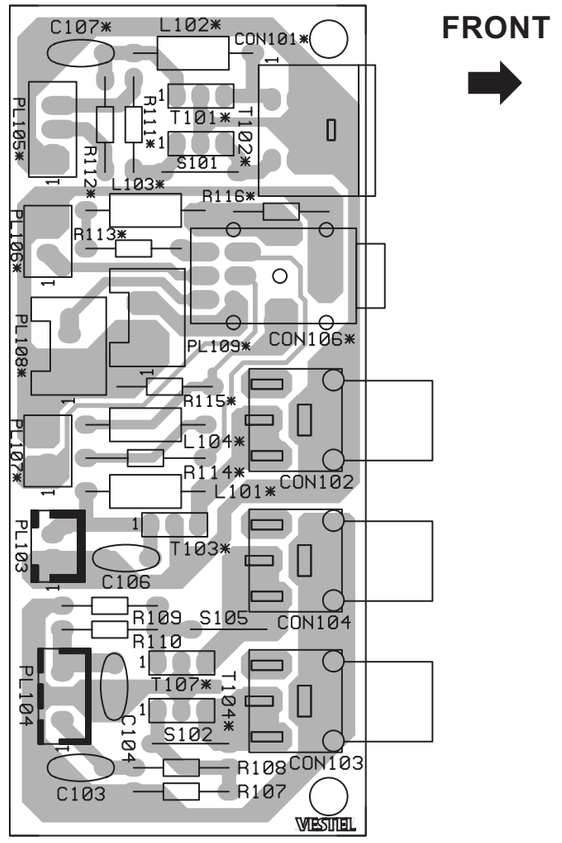
TOP

AV28BH7ENS / AV28BH7ENB
AV28BH7EPS / AV28BH7EPB
AV28BH7EES / AV28BH7EEB

CRT SOCKET PWB PATTERN



FRONT AV + HEADPHONE JACK PWB PATTERN



FRONT CONTROL PWB PATTERN